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# SORORITY RENO. LODGES A-E PHASE 2

11 Eagle Row, Atlanta, GA 30322

	ARC	HITECTURAL	STRUCTURAL	MEC	HANICAL	PLU	MBING	ELI	ECTRICAL	FIRE PROTECTION
	AD-101-2	FIRST FLOOR DEMO. PLANS - UNITS A-E								
NERAL NOTES	AD-102-2	SECOND FLOOR DEMO. PLANS - UNITS A-E		M-000-2	HVAC LEGENDS, NOTES & INDEX	P-000-2	PLUMBING LEGEND, NOTES & SCHEDULES	E-000-2	ELECTRICAL LEGEND, NOTES & ABBREVIATIONS	
	AD-103-2	THIRD FLOOR DEMO.PLANS - UNITS A-E		M-111-2	HVAC LEVEL 1 DEMOLITION PLAN	P-010-2	PLUMBING SPECIFICATIONS	E-111-2	ELECTRICAL LEVEL 1 DEMOLITION PLAN	
	AD-104-2	FOURTH FLOOR DEMO. PLANS - UNITS C-E		M-112-2	HVAC LEVEL 2 DEMOLITION PLAN	P-102-2	PLUMBING - LEVEL 1 PLAN	E-112-2	ELECTRICAL LEVEL 2 DEMOLITION PLAN	
	AD-105-2	FIFTH FLOOR DEMO. PLANS - UNITS C-E		M-113-2	HVAC LEVEL 3 DEMOLITION PLAN	P-202-2	PLUMBING - LEVEL 2 PLAN	E-113-2	ELECTRICAL LEVEL 3 DEMOLITION PLAN	
	A-010-2	OCCUPANCY CALCULATIONS		M-114-2	HVAC LEVEL 4 DEMOLITION PLAN			E-114-2	ELECTRICAL LEVEL 4 DEMOLITION PLAN	
	A-011-2	FIRST FLOOR LIFE SAFETY PLAN - UNITS A-E		M-115-2	HVAC LEVEL 5 DEMOLITION PLAN			E-115-2	ELECTRICAL LEVEL 5 DEMOLITION PLAN	
	A-012-2	SECOND FLOOR LIFE SAFETY PLAN - UNITS A-E		M-116-2	HVAC PENTHOUSE DEMOLITION PLAN			E-116-2	ELECTRICAL PENTHOUSE DEMOLITION PLAN	
	A-013-2	THIRD FLOOR LIFE SAFETY PLAN - UNITS A-E		M-221-2	HVAC LEVEL 1 PLAN			E-221-2	ELECTRICAL LEVEL 1 LIGHTING PLAN	
	A-014-2	FOURTH FLOOR LIFE SAFETY PLAN - UNITS C-E		M-222-2	HVAC LEVEL 2 PLAN			E-222-2	ELECTRICAL LEVEL 2 LIGHTING PLAN	
	A-015-2	FIFTH FLOOR LIFE SAFETY PLAN - UNITS C-E		M-223-2	HVAC LEVEL 3 PLAN			E-223-2	ELECTRICAL LEVEL 3 LIGHTING PLAN	
	A-201-2	FIRST FLOOR FINISHES PLAN - UNITS A-E		M-224-2	HVAC LEVEL 4 PLAN			E-224-2	ELECTRICAL LEVEL 4 LIGHTING PLAN	
	A-202-2	SECOND FLOOR FINISHES PLAN - UNITS A-E		M-225-2	HVAC LEVEL 5 PLAN			E-225-2	ELECTRICAL LEVEL 5 LIGHTING PLAN	
	A-203-2	THIRD FLOOR FINISHES PLAN - UNITS A-E		M-226-2	PH 2 - HVACN PENTHOUSE PLAN			E-231-2	ELECTRICAL LEVEL 1 POWER PLAN	
	A-204-2	FOURTH FLOOR FINISHES PLAN - UNITS C-E		M-700-2	HVAC SCHEDULES			E-232-2	ELECTRICAL LEVEL 2 POWER PLAN	
	A-205-2	FIFTH FLOOR FINISHES PLAN - UNITS C-E		M-800-2	HVAC RISER DIAGRAM			E-233-2	ELECTRICAL LEVEL 3 POWER PLAN	
	A-206-2	MECH. PENTHOUSE REFERENCE PLAN		M-801-2	HVAC RISER DIAGRAM			E-234-2	ELECTRICAL LEVEL 4 POWER PLAN	
	A-211-2	FIRST FLOOR RCP - UNITS A-E		M-802-2	HVAC CONTROL DIAGRAMS			E-235-2	ELECTRICAL LEVEL 5 POWER PLAN	
	A-212-2	SECOND FLOOR RCP - UNITS A-E		M-803-2	HVAC CONTROL DIAGRAMS			E-236-2	ELECTRICAL PENTHOUSE POWER PLAN	
	A-213-2	THIRD FLOOR RCP - UNITS A-E		M-900-2	HVAC DETAILS			E-500-2	ELECTRICAL DETAILS	
	A-214-2	FOURTH FLOOR RCP - UNITS C-E						E-501-2	ELECTRICAL DETAILS	
	A-215-2	FIFTH FLOOR RCP - UNITS C-E						E-800-2	ELECTRICAL SCHEDULES	
	A-390	WALL TYPES						E-801-2	ELECTRICAL SCHEDULES	
	A-700-2	DOOR SCHEDULE & FINISH LEGEND - UNITS A-E								
	A-712-2	KITCHEN MILLWORK @ UNITS C, D, E								
	A-713-2	KITCHEN MILLWORK @ UNITS A & B								
	A-714-2	NEW ADA TOILET @ UNIT B								
	1									
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# **FOR PRICING** 12/16/21



G-000-2

ABV	
AF	ACCESS FLOOR
AP ACOUS	ACCESS PANEL
APC	ACOUSTIC PANEL CEILING
AWC ADJUST	ACOUSTICAL WALL COVERING ADJUSTABLE
A/C	AIR CONDITIONING
AHU AL, ALUM	AIR HANDLING UNIT ALUMINUM
ALT	
ADA AB	AMERICANS W/ DISABILITIES ACT ANCHOR BOLT
L	ANGLE
APPROX	APPROXIMATE
A/E	ARCHITECT/ENGINEER
ASSY	ASSEMBLY
ASPH	ASPHALT
<u>w</u>	AI
BKS BM	BACKSPLASH BEAM
BRG	BEARING
BTW BF	BETWEEN BIEOLD
BLK	BLOCK (ING)
BD BLT	BOARD BOLT
BND	BOND
BOT	BOTTOM
B.O.	BOTTOM OF
BRZ	BRONZE
BLDG BI	BUILDING BUILDING LINE
BP	BYPASS
0.15	
CAB CAR	CABINE I CARPET
CSWK	
CLG	CEILING
	CEMENT
CTR	CENTER
CL, C	
CT	CERAMIC TILE
CHBD C	CHALKBOARD CHANNEI
CLRM	CLASSROOM
CO CLR	CLEANOUT
CLOS	CLOSET
CRC	COLD ROLLED CHANNEL
COMB	COMBINATION
CONC CCB	CONCRETE CONCRETE BLOCK
CMU	CONCRETE MASONRY UNIT
CONF CONN	CONFERENCE CONNECTION
CONST	CONSTRUCTION
CJ CONT	CONSTRUCTION, CONTROL JOINT CONTINUOUS
CONTR	
COORD	CONTRACTOR FURNISHED EQUIP
CPG	
CORR	CORRIDOR
CTSK	COUNTER SINK
CRS	COURSE
DP	DAMPPROOFING
DEPT	DEPARTMENT
DET	
DIAG DIA, Ø	DIAMETER
DIM DW	DIMENSION
DISP	DISPENSER
DBL DR	DOUBLE DOOR
DG	DOOR GRILLE
DO DN	DOOR OPENING DOWN
DS DWG	DOWNSPOUT
DF	DRINKING FOUNTAIN
DYR	DRYER
EA	EACH
EAF	EACH FACE FAST
– ELEC	ELECTRIC (AL)
EWC EWH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER
EL	ELEVATION
ELEV ENCL	ELEVATOR ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP, EQMT	EQUIPMENT
EF	EXHAUST FAN
EXIST EG	EXISTING EXISTING GRADE
EXP	EXPANSION
EJ, EXP JT FXT	EXPANSION JOINT
ECB	EXTERIOR CEMENT BOARD
EXTD	EXIRUDED
FAB	
FOS	FACE OF STUDS
FOW FM	FACE OF WALL
FED SPEC	FEDERAL SPECIFICATIONS
⊦⊤ FIN	FEET, FOOT FINISH
FE	FIRE EXTINGUISHER
⊦EC FHC	FIRE EXTINGUISHER CABINET
FHR	
гк FPRF	FIREPROOF
FXT	FIXTURE
FLASHG	FLEXIBLE
FL FLD FD	FLOOR FLOOR DRAIN
FLUOR	FLUORESCENT
FSE FTG	FOOD SERVICE EQUIPMENT FOOTING
FDN	FOUNDATION
FS FURN	FULL SIZE FURNISH
FBO	FURNISHED BY OWNER
FUK'G	FURRING

# ABBREVIATIONS

POR

PSF

PSI

PCC

PREFAB

PROJ

RAD., R

RCPT

RECT

REC

RFF

RCP

REINF

REM

REQD

REQT

RFV

RND

RBR

RUB

SWL SCHED

SLNT

SI R

SVCB

SECT

SVC

SHWR

SGD

SNE

STC

SPCT

SPEC

SPF

SQ

SQ IN

STAG

STBLK

SST, SS

STD

STOR

SUSP

SACT

SYS

TKBD

TECH

TEMP

TEMPY

TFX

THK

T & B

T.O.

TOC

TOF

TOS

TOW

UG

UON

UR

VAN

VB

VPS

VPT

VTR

VEN

VFR

VES

VGWB

VRB

UNEX

UNFIN

TEL, TELE

STRUCT

STN CONC

STL

SERV SK

S CONC

RMV

REFR, REFRIG

QTY

LB, #

GAGE

GA

GALV

GEN

GOVT

GFE

GYP

GWB

HNDRL

HDWD

HDW

HD

HDR

HGT

HM

HP

HWH

INFO

INSUL

INT

INV

JAN

JST

KD

KO

LAB

LAM

IW

I AT

I AV

LTG

LT WT

LWC

LONG

IIH

LLV

LVR

LSC

MACH

MAINT

MFR

MFG

MAR

MATL

MAX

MC

MTG

MEMB

MTL

MBM

MI C

MS

MW

MIL

MIN

MLWK

MIR, M

MISC

MLDG

MTR

MTD

MH

MUL

NAP

NRC

NOM

N/R

NIC

NTS

OFF

OC

OPNG

OPP

OPT

ΟZ

OD

OF

0/0

OA

PTD

PBD

PVMT

PGBD

PLCS

PLAS

PLAM

PLBG

PKT

POL

PVC

PCMU

PGWB

OVHG

NO, #

MR

MEZZ

MECH

HR

HORIZ

HVAC

GALVANIZED GALV STL GALVANIZED STEEL GENERAL CONTRACTOR GENERATOR GLASS GOVERNMENT GOVERNMENT FURNISHED EQUIPMENT GRAB BAR GRADE GRILLE GROUND GROUT GYPSUM GYPSUM WALLBOARD HANDRAIL HARDWARE HARDWOOD HEAD HEADER HEATING/VENTILATION/AIR COND HEIGHT HIGH HIGH POINT HOLLOW CORE HOLLOW METAL HORIZONTAL HORSE POWER HOSE BIBB HOT WATER HEATER HOUR IMPACT RESISTANT INCHES INFORMATION INSIDE DIAMETER INSULATED GLASS INSULATION INTERIOR INVERT JANITOR JAN CLOS JANITOR CLOSET JOINT JOIST KNOCKDOWN KNOCK OUT LABORATORY LAMINATE LAMINATED PLASTIC LAMINATED WOOD LATITUDINAL LAVATORY LEFT LEFT HAND LIGHTING LIGHT WEIGHT LIGHT WEIGHT CONCRETE LONG LONGITUDINAL LONG LEG HORIZONTAL LONG LEG VERTICAL LOUVER LOW POINT NFPA LIFE SAFETY CODE LBS or (#) POUNDS MACHINE MAINTENANCE MANUFACTURER MANUFACTURING MAPLE MARBLE MARCITE MASONRY OPENING MATERIAL MAXIMUM MECHANICAL MEDICINE CABINET MEETING MEMBRANE METAL METAL BUILDING MANUFACTURER METAL LINEAR CEILING METAL STUD MEZZANINE MICROWAVE MILITARY MILLWORK MINIMUM MIRROR MISCELLANEOUS MOISTURE RESISTANT MOLDING MORTAR MOUNTED MOUNTING HEIGHT MULLION NO APPLIED FINISH NOISE REDUCTION COEFFICIENT NOMINAL NON-RATED NORTH NORTHEAST NORTHWEST NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE NUMBER OFFICE ON CENTER OPENING OPPOSITE OPP HAND OPPOSITE HAND OPTIONAL OUNCE OUTSIDE DIAMETER OUTSIDE FACE OUT TO OUT OVERALL OVERHANG OVERHEAD PANEL PAINT PAINTED PAINTED CONCRETE MASONRY UNIT PAINTED GYPSUM WALLBOARD PAIR PARTICLE BOARD PTN, PAR1 PARTITION PAVEMENT PEGBOARD PLACES PLASTER, PLASTIC PLASTIC LAMINATE PLATE PLUMBING PLWD,PLYWD PLYWOOD POCKET POLISH POLYVINYL CHLORIDE

WDFLR



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DOCUMENT HISTORY				

SIGNED BY SKO DRAWN BY SKO PROJECT NUMBER C08792.001 12/16/21 ABBREVIATIONS, SYMBOLS & GENERAL NOTES G-001-2







1 Demolition Plans Level 2 - Units A-E 1/4" = 1'-0"





Demolition Plans Level 3 - Units A-E 1/4" = 1'-0"

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NOT IN SCOPE / PREVIOUS PHASE

 $\underbrace{1 \quad \text{Demolition Plans Level 4 - Units E, D \& C}}_{1/4" = 1'-0"}$ 

2

BIM : Rend

FIXTURES. REPLACE LIGHTING FIXTURES PER THE ELECTRICAL DOCUMENTS. 5) <u>ALL</u> ACOUSTIC CEILING <u>TILES</u> TO BE REPLACED - MATCH EXISTING STYLE. 6) G.C. TO BUDGET FOR REPLACING 10% OF ACT GRID / AS REQUIRED.





1 Demolition Plans Level 5 - Units E, D & C 1/4" = 1'-0"

Emory A 20

BIM 3 Reno

PREVIOUS PHASE

5) <u>ALL</u> ACOUSTIC CEILING <u>TILES</u> TO BE REPLACED - MATCH EXISTING STYLE. 6) G.C. TO BUDGET FOR REPLACING 10% OF ACT GRID / AS REQUIRED.

3



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D

Roo Numb

11E-4 11E-4 11E-4 11F-4 11F-!

11F-!

2

## <u>LIFE SAFETY ANALYSIS - UNIT 'E'</u>

OCCUPANCY USE: SORORITY OCCUPANCY TYPE: R-2 (RESIDENTIAL) PER IBC SECTION 309.1 TYPE OF CONSTRUCTION CONSTRUCTION TYPE I-B (EXISTING)

PER IBC SECTION 601

FIRE PROTECTION SYSTEMS BUILDING IS FULLY SPRINKLERED (EXISTING)

BUILDING DESIGN (EXISTING): LOAD BEARING CMU WALLS WITH PRESTRESSED HOLLOW CORE CONCRETE PLANKS FOR FLOOR AND ROOF.

### FIRE PROTECTION REQUIREMENTS (EXISTING): VERTICAL PENETRATIONS - 4 STORY HIGH - 2 HOUR CONSTRUCTION VERTICAL PENETRATIONS - 4 STORY HIGH OR LESS - 1 HOUR CONSTRUCTION MECHANICAL ROOM - 1 HOUR CONSTRUCTION

NOTE: ANY PENETRATIONS IN THE RATED WALLS SHALL BE PROTECTED PER U.L. DESIGN SYSTEM NUMBER W-L 2098 (OR APPROVED EQUAL) TO MAINTAIN THE EXISTING ASSEMBLY

17'

RATING		
TABLE 500	ALLOWABLE	ACTUAL
MAXIMUM BUILDING HEIGHT	160'	54'
MAXIMUM # OF STORIES	11	5
MAXIMUM FLOOR AREA	UNLIMITED	8,993 SF
MAXIMUM TRAVEL DISTANCE TO EXIT	300'	61'
MAXIMUM COMMON TRAVEL DISTANCE	100'	10'

MAXIMUM COMMON TRAVEL DISTANCE 100' MAXIMUM DEAD END LIMIT 50'

EGRESS WIDTH REQUIRED @ EACH UNIT: (LEVEL 1) 98 OCCUPANTS x .20" PER OCCUPANT = 19.6" OR 32" MINIMUM (LEVEL 2) 118 OCCUPANTS x .20" PER OCCUPANT = 2319.6" OR 32" MINIMUM (LEVEL 3. 4, 5) 8 OCCUPANTS x .20" PER OCCUPANT = 1.6" OR 32" MINIMUM

EGRESS WIDTH PROVIDED @ STAIR: EXIT (STAIR S1) AT 42" & (STAIR S2) AT 41"= 83 INCHES (EXISTING)

MINIMUM CORRIDOR/AISLE WIDTH PROVIDED: 50"

Occupancy Calculations - Townhouse Unit E						
om Iber	Room Name	Occupancy	Area	Occupancy Load Factor	No. of Occupants	Townhouse
100	STOR.	S	157 SF	300 SF	1	E
00A	IDF	S	45 SF	300 SF	1	E
101	RITUAL STOR.	S	91 SF	300 SF	1	E
102	ELEC.	S	28 SF	300 SF	1	E
104	JAN.	S	18 SF	300 SF	1	E
105	MECH.	S	23 SF	300 SF	1	E
106	CHAPTER MTG RM	A-3	697 SF	7 SF	100	E
107	HOUSEKEEPING	S	31 SF	300 SF	1	E
200	LIVING ROOM	A-3	621 SF	7 SF	89	E
201	MECH.	S	25 SF	300 SF	1	E
204	KITCHEN	A-3	426 SF	15 SF	29	E
205	PANTRY	S	70 SF	300 SF	1	E
206	MECH.	S	37 SF	300 SF	1	E
800A	BEDROOM	R-2	194 SF	100 SF	2	E
300B	BEDROOM	R-2	193 SF	100 SF	2	E
301A	BEDROOM	R-2	199 SF	100 SF	2	E
301B	BEDROOM	R-2	196 SF	100 SF	2	E
302	STUDY	A-3	67 SF	15 SF	5	E
303	OFFICE	В	61 SF	100 SF	1	E
304	MECH.	S	23 SF	300 SF	1	E
A004	BEDROOM	R-2	195 SF	100 SF	2	E
00B	BEDROOM	R-2	193 SF	100 SF	2	E
01A	BEDROOM	R-2	200 SF	100 SF	2	E
01B	BEDROOM	R-2	196 SF	100 SF	2	E
402	STUDY	A-3	67 SF	15 SF	5	E
403	LAUNDRY	S	74 SF	300 SF	1	E
404	MECH.	S	23 SF	300 SF	1	E
500A	BEDROOM	R-2	196 SF	100 SF	2	E
500B	BEDROOM	R-2	195 SF	100 SF	2	E
501A	BEDROOM	R-2	199 SF	100 SF	2	Е
501B	BEDROOM	R-2	195 SF	100 SF	2	E
502	STUDY	A-3	68 SF	15 SF	5	E
503	LAUNDRY	S	74 SF	300 SF	1	E
504	MECH.	S	23 SF	300 SF	1	E
tal: 34	-			-	273	

## LIFE SAFETY ANALYSIS - UNIT 'D'

OCCUPANCY USE: SORORITY OCCUPANCY TYPE: R-2 (RESIDENTIAL)	<u>PER IB</u>
TYPE OF CONSTRUCTION CONSTRUCTION TYPE I-B (EXISTING)	<u>PER IB</u>
FIRE PROTECTION SYSTEMS BUILDING IS FULLY SPRINKLERED (EXISTING)	
BUILDING DESIGN (EXISTING): LOAD BEARING CORE CONCRETE PLANKS FOR FLOOR AND F	G CMU W ROOF.
FIRE PROTECTION REQUIREMENTS (EXISTING VERTICAL PENETRATIONS - 4 STORY HIGH - 2 VERTICAL PENETRATIONS - 4 STORY HIGH OF MECHANICAL ROOM - 1 HOUR CONSTRUCTIO	<u>G):</u> HOUR ( R LESS - N
NOTE: ANY PENETRATIONS IN THE RATED WA SYSTEM NUMBER W-L 2098 (OR APPROVED E RATING	ALLS SHA QUAL) T
TABLE 500	ALLOW
MAXIMUM BUILDING HEIGHT	160'
MAXIMUM # OF STORIES	11
MAXIMUM FLOOR AREA	UNLIMI
MAXIMUM TRAVEL DISTANCE TO EXIT MAXIMUM COMMON TRAVEL DISTANCE MAXIMUM DEAD END LIMIT	300' 100' 50'
EGRESS WIDTH REQUIRED @ EACH UNIT: (LEVEL 1) 98 OCCUPANTS x .20" PER OCCUPA (LEVEL 2) 118 OCCUPANTS x .20" PER OCCUP (LEVEL 3. 4, 5) 8 OCCUPANTS x .20" PER OCCU	NT = 19. ANT = 23 JPANT =

EGRESS WIDTH PROVIDED @ STAIR: EXIT (STAIR S1) AT 42" & (STAIR S2) AT 41"= 83 INCHES (EXISTING)

MINIMUM CORRIDOR/AISLE WIDTH PROVIDED: 50"

Occupancy Calculations - Townho Room Number Room Name Occupancy Area 11D-100 197 SF STOR. 11D-101 RITUAL STOR. 85 SF 11D-102 28 SF MECH. 11D-104 17 SF JAN. 11D-105 MECH. 24 SF S 11D-106 CHAPTER MTG RM 699 SF A-3 11D-107 20 SF HOUSEKEEPING S 11D-200 LVNG RM A-3 624 SF 11D-201 MECH. 25 SF 11D-204 KITCHEN A-3 427 SF 11D-205 70 SF PANTRY S MECH. 36 SF ID-206 11D-300A 203 SF BEDROOM R-2 11D-300B BEDROOM R-2 205 SF 11D-301A BEDROOM R-2 192 SF R-2 11D-301B BEDROOM 196 SF 11D-302 STUDY A-3 66 SF 11D-303 OFFICE 63 SF 11D-304 23 SF MECH. 11D-400A BEDROOM R-2 203 SF 11D-400B BEDROOM R-2 205 SF 11D-401A BEDROOM R-2 192 SF 11D-401B R-2 BEDROOM 196 SF 11D-402 STUDY A-3 66 SF 11D-403 LAUNDRY 76 SF 11D-404 23 SF MECH. 11D-500A BEDROOM R-2 203 SF 11D-500B BEDROOM R-2 201 SF 11D-501A BEDROOM R-2 192 SF 11D-501B BEDROOM R-2 196 SF 11D-502 STUDY A-3 67 SF 11D-503 76 SF LAUNDRY 11D-504 23 SF MECH.

and total: 33

## LIFE SAFETY ANALYSIS - UNIT 'B'

<u>TYPE OF CONSTRUCTION</u> CONSTRUCTION TYPE I-B (EXISTING)

FIRE PROTECTION SYSTEMS BUILDING IS FULLY SPRINKLERED (EXISTING)

FIRE PROTECTION REQUIREMENTS (EXISTING)

### VERTICAL PENETRATIONS - 4 STORY HIGH - 2 HOUR CONSTRUCTION VERTICAL PENETRATIONS - 4 STORY HIGH OR LESS - 1 HOUR CONSTRUCTION MECHANICAL ROOM - 1 HOUR CONSTRUCTION

NOTE: ANY PENETRATIONS IN THE RATED WALLS SHALL BE PROTECTED PER U.L. DESIGN SYSTEM NUMBER W-L 2098 (OR APPROVED EQUAL) TO MAINTAIN THE EXISTING ASSEMBLY RATING

### TABLE 500 MAXIMUM BUILDING HEIGHT MAXIMUM # OF STORIES

MAXIMUM FLOOR AREA

MAXIMUM TRAVEL DISTANCE TO EXIT MAXIMUM COMMON TRAVEL DISTANCE MAXIMUM DEAD END LIMIT

<u>EGRESS WIDTH REQUIRED @ EACH UNIT:</u> (LEVEL 1) 25 OCCUPANTS x .20" PER OCCUPANT = 5" OR 32" MINIMUM (LEVEL 2) 133 OCCUPANTS x .20" PER OCCUPANT = 26.6" OR 32" MINIMUM (LEVEL 3) 15 OCCUPANTS x .20" PER OCCUPANT = 3" OR 32" MINIMUM

# EGRESS WIDTH PROVIDED @ STAIR: EXIT (STAIR S1) AT 42" & (STAIR S2) AT 41"= 83 INCHES (EXISTING)

MINIMUM CORRIDOR/AISLE WIDTH PROVIDED: 48"

Occupancy Calculations - Townhouse Unit B						
Room Number	Room Name	Occupancy	Area	Occupancy Load Factor	No. of Occupants	Townhouse
11B-100	MEETING ROOM	A-3	346 SF	15 SF	24	В
11B-101	STOR.	S	285 SF	300 SF	1	В
11B-200	LIVING ROOM	A-3	437 SF	7 SF	63	В
11B-201	MECH.	S	25 SF	300 SF	1	В
11B-203	CHAPTER MTG RM	A-3	381 SF	7 SF	55	В
11B-203A	STOR.	S	20 SF	300 SF	1	В
11B-204	KITCHEN	A-3	182 SF	15 SF	13	В
11B-205	PANTRY	S	58 SF	300 SF	1	В
11B-300	BEDROOM	R-2	217 SF	100 SF	3	В
11B-301A	BEDROOM	R-2	190 SF	100 SF	2	В
11B-301B	BEDROOM	R-2	190 SF	100 SF	2	В
11B-302	STUDY	A-3	71 SF	15 SF	5	В
11B-303	LAUNDRY	S	61 SF	300 SF	1	В
11B-304	MECH.	S	25 SF	300 SF	1	В
11B-305	OFFICE	В	77 SF	100 SF	1	В
Frand total: 15	•	· ·		·	173	

## C SECTION 309.1

BC SECTION 601

VALLS WITH PRESTRESSED HOLLOW

### CONSTRUCTION - 1 HOUR CONSTRUCTION

HALL BE PROTECTED PER U.L. DESIGN TO MAINTAIN THE EXISTING ASSEMBLY

BLE	ACTUAL
	54'
	5
D	8,993 SF
	61'
	10'
	17'

### 9.6" OR 32" MINIMUM 2319.6" OR 32" MINIMUM

= 1.6" OR 32" MINIMUM

ouse Unit D		
Occupancy Load	No. of	
Factor	Occupants	Townhouse
300 SF	1	D
7 SF	100	D
300 SF	1	D
7 SF	90	D
300 SF	1	D
15 SF	29	D
300 SF	1	D
300 SF	1	D
100 SF	3	D
100 SF	3	D
100 SF	2	D
100 SF	2	D
15 SF	5	D
100 SF	1	D
300 SF	1	D
100 SF	3	D
100 SF	3	D
100 SF	2	D
100 SF	2	D
15 SF	5	D
300 SF	1	D
300 SF	1	D
100 SF	3	D
100 SF	2	D
100 SF	2	D
100 SF	2	D
15 SF	5	D
300 SF	1	D
300 SF	1	D
	274	

 OCCUPANCY USE:
 SORORITY

 OCCUPANCY TYPE:
 R-2 (RESIDENTIAL)

PER IBC SECTION 601

BUILDING DESIGN (EXISTING): LOAD BEARING CMU WALLS WITH PRESTRESSED HOLLOW CORE CONCRETE PLANKS FOR FLOOR AND ROOF.

ALLOWABLE	ACTUAL
160'	35'
11	3
UNLIMITED	4,071 SF
300' 100' 50'	59' 10' 13'
50	13

## LIFE SAFETY ANALYSIS - UNIT 'C'

OCCUPANCY USE: SORORITY OCCUPANCY TYPE: R-2 (RESIDENTIAL)	PER IBC SECTION 309.1
TYPE OF CONSTRUCTION CONSTRUCTION TYPE I-B (EXISTING)	PER IBC SECTION 601
FIRE PROTECTION SYSTEMS BUILDING IS FULLY SPRINKLERED (EXIST	ING)
BUILDING DESIGN (EXISTING): LOAD BEA	RING CMU WALLS WITH PRESTRESSED HOLLOW
FIRE PROTECTION REQUIREMENTS (EXIS VERTICAL PENETRATIONS - 4 STORY HIG VERTICAL PENETRATIONS - 4 STORY HIG MECHANICAL ROOM - 1 HOUR CONSTRU	<u>STING):</u> GH - 2 HOUR CONSTRUCTION GH OR LESS - 1 HOUR CONSTRUCTION CTION
NOTE: ANY PENETRATIONS IN THE RATE DESIGN SYSTEM NUMBER W-L 2098 (OR A ASSEMBLY RATING	D WALLS SHALL BE PROTECTED PER U.L. APPROVED EQUAL) TO MAINTAIN THE EXISTING

TABLE 500	ALLOWABLE	ACTUAL
MAXIMUM BUILDING HEIGHT	160'	54'
MAXIMUM # OF STORIES	11	5
MAXIMUM FLOOR AREA	UNLIMITED	8,993 SF
MAXIMUM TRAVEL DISTANCE TO EXIT	300'	61'
MAXIMUM COMMON TRAVEL DISTANCE	100'	10'
MAXIMUM DEAD END LIMIT	50'	17'

<u>EGRESS WIDTH REQUIRED @ EACH UNIT:</u> (LEVEL 1) 107 OCCUPANTS x .20" PER OCCUPANT = 21.4" OR 32" MINIMUM (LEVEL 2) 118 OCCUPANTS x .20" PER OCCUPANT = 2319.6" OR 32" MINIMUM (LEVEL 3. 4, 5) 8 OCCUPANTS x .20" PER OCCUPANT = 1.6" OR 32" MINIMUM

EGRESS WIDTH PROVIDED @ STAIR: EXIT (STAIR S1) AT 42" & (STAIR S2) AT 41"= 83 INCHES (EXISTING)

MINIMUM CORRIDOR/AISLE WIDTH PROVIDED: 50"

	Occupano	cy Calculation	s - Townl	nouse Unit C		
Room				Occupancy Load	No. of	
Number	Room Name	Occupancy	Area	Factor	Occupants	Townhouse
11C-100	STOR.	S	159 SF	300 SF	1	С
11C-100A	IDF	S	45 SF	300 SF	1	С
11C-101	RITUAL STOR.	S	92 SF	300 SF	1	С
11C-102	ELEC.	S	28 SF	300 SF	1	С
11C-104	JAN.	S	18 SF	300 SF	1	С
11C-105	MECH.	S	23 SF	300 SF	1	С
11C-106	CHAPTER MTG RM	A-3	697 SF	7 SF	100	С
11C-107	HOUSEKEEPING	S	31 SF	300 SF	1	С
11C-200	LIVING ROOM	A-3	626 SF	7 SF	90	С
11C-201	MECH.	S	25 SF	300 SF	1	С
11C-204	KITCHEN	A-3	425 SF	15 SF	29	С
11C-205	PANTRY	S	70 SF	300 SF	1	С
11C-206	MECH.	S	36 SF	300 SF	1	С
11C-300A	BEDROOM	R-2	203 SF	100 SF	3	С
11C-300B	BEDROOM	R-2	202 SF	100 SF	3	С
11C-301A	BEDROOM	R-2	192 SF	100 SF	2	С
11C-301B	BEDROOM	R-2	189 SF	100 SF	2	С
11C-302	STUDY	A-3	67 SF	15 SF	5	С
11C-303	OFFICE	В	61 SF	100 SF	1	С
11C-304	MECH.	S	23 SF	300 SF	1	С
11C-400A	BEDROOM	R-2	203 SF	100 SF	3	С
11C-400B	BEDROOM	R-2	202 SF	100 SF	3	С
11C-401A	BEDROOM	R-2	192 SF	100 SF	2	С
11C-401B	BEDROOM	R-2	191 SF	100 SF	2	С
11C-402	STUDY	A-3	66 SF	15 SF	5	С
11C-403	LAUNDRY	S	74 SF	300 SF	1	С
11C-404	MECH.	S	23 SF	300 SF	1	С
11C-500A	BEDROOM	R-2	203 SF	100 SF	3	С
11C-500B	BEDROOM	R-2	202 SF	100 SF	3	С
11C-501A	BEDROOM	R-2	192 SF	100 SF	2	С
11C-501B	BEDROOM	R-2	189 SF	100 SF	2	С
11C-502	STUDY	A-3	67 SF	15 SF	5	С
11C-503	LAUNDRY	S	74 SF	300 SF	1	С
11C-504	MECH.	S	23 SF	300 SF	1	С
Grand total: 34					274	

## LIFE SAFETY ANALYSIS - UNIT 'A'

OCCUPANCY USE:SORORITYOCCUPANCY TYPE:R-2 (RESIDENTIAL)PER IBC SECTION 309.1

TYPE OF CONSTRUCTIONCONSTRUCTION TYPE I-B (EXISTING)PER IBC SECTION 601

FIRE PROTECTION SYSTEMS BUILDING IS FULLY SPRINKLERED (EXISTING)

BUILDING DESIGN (EXISTING): LOAD BEARING CMU WALLS WITH PRESTRESSED HOLLOW CORE CONCRETE PLANKS FOR FLOOR AND ROOF.

FIRE PROTECTION REQUIREMENTS (EXISTING): VERTICAL PENETRATIONS - 4 STORY HIGH - 2 HOUR CONSTRUCTION VERTICAL PENETRATIONS - 4 STORY HIGH OR LESS - 1 HOUR CONSTRUCTION MECHANICAL ROOM - 1 HOUR CONSTRUCTION

### NOTE: ANY PENETRATIONS IN THE RATED WALLS SHALL BE PROTECTED PER U.L. DESIGN SYSTEM NUMBER W-L 2098 (OR APPROVED EQUAL) TO MAINTAIN THE EXISTING

ASSEMBLY RATING		
TABLE 500	ALLOWABLE	ACTUAL
MAXIMUM BUILDING HEIGHT	160'	35'
MAXIMUM # OF STORIES	11	3
MAXIMUM FLOOR AREA	UNLIMITED	4,115 SF
MAXIMUM TRAVEL DISTANCE TO EXIT	300'	59'
MAXIMUM COMMON TRAVEL DISTANCE	100'	10'
MAXIMUM DEAD END LIMIT	50'	13'

## EGRESS WIDTH REQUIRED @ EACH UNIT: (LEVEL 1) 3 OCCUPANTS x .20" PER OCCUPANT = .6" OR 32" MINIMUM (LEVEL 2) 133 OCCUPANTS x .20" PER OCCUPANT = 26.6" OR 32" MINIMUM

(LEVEL 3) 15 OCCUPANTS x .20" PER OCCUPANT = 3" OR 32" MINIMUM

EGRESS WIDTH PROVIDED @ STAIR: EXIT (STAIR S1) AT 42" & (STAIR S2) AT 41"= 83 INCHES (EXISTING)

MINIMUM CORRIDOR/AISLE WIDTH PROVIDED: 48"

Occupancy Calculations - Townhouse Unit A						
Room Number	Room Name	Occupancy	Area	Occupancy Load Factor	No. of Occupants	Townhous
11A-100	ELEC.	S	45 SF	300 SF	1	А
11A-101	IDF	S	45 SF	300 SF	1	А
11A-102	MECH.	S	291 SF	300 SF	1	А
11A-200	LIVING ROOM	A-3	437 SF	7 SF	63	А
11A-201	MECH.	S	25 SF	300 SF	1	А
11A-203	CHAPTER MTG RM	A-3	378 SF	7 SF	55	А
11A-203A	STOR.	S	20 SF	300 SF	1	А
11A-204	KITCHEN	A-3	187 SF	15 SF	13	А
11A-205	PANTRY	S	56 SF	300 SF	1	A
11A-300	BEDROOM	R-2	217 SF	100 SF	3	А
11A-301A	BEDROOM	R-2	190 SF	100 SF	2	А
11A-301B	BEDROOM	R-2	187 SF	100 SF	2	А
11A-302	STUDY	A-3	70 SF	15 SF	5	А
11A-303	LAUNDRY	S	60 SF	300 SF	1	А
11A-304	MECH.	S	25 SF	300 SF	1	А
11A-305	OFFICE	В	77 SF	100 SF	1	A





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DOCUMENT HISTORY						
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DESIGNED B SKO DRAWN BY SKO PROJECT NUMBER C08792.001 DATE 12/16/21 OCCUPANCY CALCULATIONS





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1 Life Safety Plans, Level 1 - Units A thru E 1/4" = 1'-0"

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# ANY GAPS ARE FILLED WITH FIRESTOPS.



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PROJECT NUMBER C08792.001 DATE 12/16/21 FIRST FLOOR LIFE SAFETY PLAN - UNITS A-E A-011-2



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DESIGNED BY SKO DRAWN BY PROJECT NUMBER C08792.001 DATE 12/16/21 THIRD FLOOR LIFE SAFETY PLAN - UNITS A-E

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30x42 - 12/16/20 copyright 2021 1 Life Safety Plans, Level 4 - Units C thru E 1/4" = 1'-0"

## \* NOTE\*: 1) G.C. TO ENSURE THAT WALLS NOTED / MARKED AS RATED WALLS GO TO UNDERSIDE OF STRUCTURE ABOVE AND THAT ANY GAPS ARE FILLED WITH FIRESTOPS.



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LIFE SAFETY ROOM TAG
ROOM NAME  ROOM    ROOM NUMBER  1011    ROOM AREA  75 SF    OCCUPANT LOAD FACTOR  1/100    NUMBER OF OCCUPANTS
LIFE SAFETY EXIT TAG
ANTICIPATED NO. OF PEOPLE
ALLOWABLE NO. OF PEOPLE
EGRESS ROUTE
SEGMENT LENGTH 30'-0"
EGRESS PATH ORIGIN
EGRESS PATH EXIT
BUILDING DISCHARGE

# LIFE SAFETY LEGEND

FIRE RATING INFORMATION 3 HOUR FIRE WALL (EXIST.) 2 HOUR FIRE WALL (EXIST.) 1 HOUR RATED WALL (EXIST.) NEW 1 HOUR FIRE WALL SMOKE PARTITION DORMITORY

'A', ASSEMBLY OCCUPANCY

1 HR ENCLOSURE, MIN.

2 HR ENCLOSURE, MIN.

NOT IN SCOPE

──N-1 ─ • ─ • ─ N-1 ──
-SP-SP-SP-

FIRE PROTECTION	
FIRE RESISTANT RATED OPENING	20
FIRE EXTINGUISHER, BRACKET-MOUNTED	FE
FIRE EXTINGUISHER CABINET, SEMI-RECESSED OR SURFACE-MOUNTED, PER SPECS.	FEC
EMERGENCY SYSTEMS	
EXIT LIGHT	
NOTES	
	FIRE PROTECTION FIRE RESISTANT RATED OPENING FIRE EXTINGUISHER, BRACKET-MOUNTED FIRE EXTINGUISHER CABINET, SEMI-RECESSED OR SURFACE-MOUNTED, PER SPECS. EMERGENCY SYSTEMS EXIT LIGHT NOTES 1 EXIT SIGN LOCATION: CONFIRM WITH ELEC. DWGS





1 Life Safety Plans, Level 5 - Units C, D, E 1/4" = 1'-0"

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## \* NOTE\*: 1) G.C. TO ENSURE THAT WALLS NOTED / MARKED AS RATED WALLS GO TO UNDERSIDE OF STRUCTURE ABOVE AND THAT ANY GAPS ARE FILLED WITH FIRESTOPS.

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# LIFE SAFETY LEGEND

FE SAFETY ROOM TAG	FIRE RATING INFORMATION		FIRE PROTECTION		
	3 HOUR FIRE WALL (EXIST.)				
	2 HOUR FIRE WALL (EXIST.)		FIRE RESISTANT RATED OPENING	(20)	
OCCUPANT LOAD FACTOR				FE_	
NUMBER OF OCCUPANTS	1 HOUR RATED WALL (EXIST.)		FIRE EXTINGUISHER, BRACKET-MOUNTED	•	
	NEW 1 HOUR FIRE WALL	──N-1 ── • ── N-1			
LIFE SAFETT EXITING	SMOKE PARTITION	-SPSP	OR SURFACE-MOUNTED, PER SPECS.	FEC	
ANTICIPATED NO. OF PEOPLE					
	DORMITORY				
ALLOWABLE NO. OF PEOPLE			EMERGENCY SYSTEMS		
	'A', ASSEMBLY OCCUPANCY				
EGRESS ROUTE			EXIT LIGHT		
SEGMENT LENGTH 30'-0"	1 HR ENCLOSURE, MIN.				
EGRESS PATH ORIGIN					
EGRESS PATH EXIT	2 HR ENCLOSURE, MIN.	(사항)가 있는 사망가 있는 사망가 있는 사망가 있는 것 19월 20일 - 사망가 있는 사망가 있는 사망가 있는 사망가 있는 사망가 있는 사망가 있는 것이다. 19월 20일 - 사망가 있는 사망가 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이다.			
			NOTES		
	NOT IN SCOPE		1. EXIT SIGN LOCATION: CONFIRM WITH ELEC. DWGS.		
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- DOORS 301, 301C ALL UNITS TO RECEIVE NEW DOOR OPERATORS, (2) ACTUATORS & ELECTRIC STRIKES. - DOORS \*V1-1 & \*V1-2 TO RECEIVE NEW DOOR OPERATORS, (2) ACTUATORS & ELECTRIC STRIKES.

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1 Penthouse Reference Plan 1/8" = 1'-0"

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1 Level 1 RCP - Units E, D, C, B & A 1/4" = 1'-0"

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1 <u>Level 2 RCP - Units E, D, C, B & A</u> 1/4" = 1'-0"





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4) CEILING HEIGHTS ARE NOT NOTED - EXISTING HEIGHTS TO REMAIN.



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**RCP NOTES:** 1) <u>ALL</u> EXISTING LIGHT FIXTURES TO BE REMOVED & REPLACED, IN KIND. REFER TO THE THE ELECTRICAL DOCUMENTS FOR MORE INFORMATION. 2) <u>ALL</u> ACOUSTIC CEILING <u>TILES</u> TO BE REPLACED - MATCH EXISTING STYLE. 3) G.C. TO BUDGET FOR REPLACING 10% OF ACT GRID / AS REQUIRED. 4) CEILING HEIGHTS ARE NOT NOTED - EXISTING HEIGHTS TO REMAIN.

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1) Level 4 RCP - Units E, D & C 1/4" = 1'-0"







**RCP NOTES:** 

1) <u>ALL</u> EXISTING LIGHT FIXTURES TO BE REMOVED & REPLACED, IN KIND. REFER TO THE THE ELECTRICAL DOCUMENTS FOR MORE INFORMATION. 2) <u>ALL</u> ACOUSTIC CEILING <u>TILES</u> TO BE REPLACED - MATCH EXISTING STYLE. 3) G.C. TO BUDGET FOR REPLACING 10% OF ACT GRID / AS REQUIRED. 4) CEILING HEIGHTS ARE NOT NOTED - EXISTING HEIGHTS TO REMAIN.

1 Level 5 RCP - Units E, D & C 1/4" = 1'-0"

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		DECK
		FIRE RESISTIVE JOINT SYSTEM AT DECK S WHERE PARTITION IS FIRE RATED OR SMOKE BARRIER
E		
		WALL TYPE     RATING     TES       0-M8     NON RATED       S-M8     SMOKE       0-M8A     STC 44-49     NCMA TE
D		1-M8         1 HR         UL U905           2-M8         2 HR         UL U905           3-M8         3 HR         UL U904           4-M8         4 HR         UL U901           PARTITION 0-M8
C		
В		
Sorority Housing 11_CENTRAL.rvt		
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	DOOR & FRAME SCHEDULE - UNIT A									
		DOOR			EXIST	ING	NEW FI	NISH		
		SWINGS	DOOR	EXIST.	DOOR	FRAME	DOOR	FRAME		
DOOR NO.	FROM ROOM:	INTO ROOM:	OPERATOR	RATING	MAT'L	MAT'L	FINISH	FINISH	REMARKS	UNIT
1V1	VEST.	CORR.		90	PAINTED	ALUM		N/A		A
2S2-2	CORR.	STAIR	No	90	PAINTED	PTD HM	P-10	P-10		A
2V1-2	VEST.	CORR.	Yes	45	PAINTED	ALUM	P-10	N/A		A
3S1	CORR.	STAIR		90	PAINTED	ALUM	P-10	N/A		A
3S2-2	CORR.	STAIR		90	PAINTED	PTD HM	P-11	P-11	MATCH WALL COLOR, CORRIDOR SIDE	A
3V1-2	VEST.	CORR.	Yes	90	PAINTED	PTD HM	P-11	P-11	MATCH WALL COLOR, CORRIDOR SIDE	A
200	LIVING ROOM				PAINTED	PTD HM	P-10	P-10		A
201	MECH.	LIVING ROOM		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
202	TOILET	CORR.			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
203-1	CHAPTER MTG RM	CORR.			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
203-2	CHAPTER MTG RM				PAINTED	PTD HM	P-10	P-10		A
203A	CLOSET	CHAPTER MTG RM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
205	KITCHEN	PANTRY		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
300	CORR.	BEDROOM		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
300A	BEDROOM	TOILET			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
300A-1	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
300A-2	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
301	CORR.	ENTRY		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
301A	ENTRY	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
301A-1	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
301A-2	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
301B	ENTRY	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
301B-1	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
301B-2	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
301C	ENTRY	ADA TOILET			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
303	STUDY	LAUNDRY		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
304	MECH.	CORR.		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-11	MATCH WALL COLOR, CORRIDOR SIDE	A
305	CORR.	OFFICE		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		A
A-1C2	CORR.				PAINTED	PTD HM	P-10	P-10		A
A-1C3	CORR.				PAINTED	PTD HM	P-10	P-10		A
A-1S2	STAIR	CORR.		90	PAINTED	PTD HM	P-10	P-10		A
A-100	CORR.	ELEC.		45	PAINTED	PTD HM	P-10	P-10		A
A-101	CORR.	IDF		45	PAINTED	PTD HM	P-10	P-10		A
Δ_102	CORR	MECH		45	ΡΔΙΝΤΕΠ		P-10	P-10		Δ

	DOOR & FRAME SCHEDULE - UNIT B									
		DOOP			EXIST	ING	NEW FI	NISH		
		SWINGS	DOOR	EXIST.	DOOR	FRAME	DOOR	FRAME		
DOOR NO.	FROM ROOM:	INTO ROOM:	OPERATOR	RATING	MAT'L	MAT'L	FINISH	FINISH	REMARKS	UNIT
2S2-1	CORR.	STAIR		90	PAINTED	PTD HM	P-10	P-10	PTD FRAME TO MATCH DOOR COLOR (IF FRAME IS PAINTED CURRENTLY)	В
2V1-1	VEST.	CORR.	Yes	45	PAINTED	ALUM	P-10	N/A		В
3S1	CORR.	STAIR		90	PAINTED	PTD HM	P-10	P-12		В
3S2-1	CORR.	STAIR		90	PAINTED	ALUM	P-12	N/A	PAINT DOOR & FRAME TO MATCH WALL	В
3V1-1	VEST.	CORR.	Yes	90	PAINTED	ALUM	P-12	N/A		В
200	LIVING ROOM				PAINTED	PTD HM	P-10	P-10		В
201	MECH.	LIVING ROOM		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
202	TOILET	CORR.			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
203-1	CHAPTER MTG RM				STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
203-2	CHAPTER MTG RM				PAINTED	PTD HM	P-10	P-10	PTD FRAME TO MATCH DOOR COLOR (IF FRAME IS PAINTED CURRENTLY)	В
203A	CLOSET	CHAPTER MTG RM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
205	KITCHEN	PANTRY		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
300	CORR.	BEDROOM		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
300A	BEDROOM	TOILET			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
300A-1	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
300A-2	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
301	CORR.	ENTRY		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
301A	ENTRY	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
301A-1	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
301A-2	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
301B	ENTRY	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
301B-1	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
301B-2	CLOSET	BEDROOM			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
301C	ENTRY	ADA TOILET			STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
303	STUDY	LAUNDRY		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
304	MECH.	CORR.		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
305	CORR.	OFFICE		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		В
A-1S3	MEETING ROOM	STOR.		45	EXIST	EXIST	N/A	N/A	PATCH & REPAIR AFTER RELOCATION	В
A-1S5	MEETING ROOM	ADA TOILET			EXIST	EXIST	N/A	N/A	PATCH & REPAIR AFTER RELOCATION	В
B-100	CORR.	MEETING ROOM		45	EXIST	EXIST	N/A	N/A	EXISTING FINISH ON DOOR & FRAME, TO REMAIN	В
B-102	ELEV EQPM	STOR.		45	EXIST	EXIST	N/A	N/A		В

** (	G.C.	ТО	COC
OP	ERA	TO	R LC
**	NST	ALL	_ TH
DO	OR	OP	ERA
(2)	EAC		8310 <sup>.</sup>
(Z)		сн с 1 Ц с	5310- CN
(   ) (1)		רו, אם פ	-CIN
(')	LAC	) I I U	~

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RDINATE CONDUIT ROUTING WITH DOOR
CATIONS **
FOLLOWING AT EACH DOOR TO RECEIVE A NEW
OR:
819F FLUSH BOXES

0-818T OPERATORS

**4360 LOW ENERGY OPERATOR** 

1 x FSE 12/24v VONDUPRIN EL STRIKE

				EXISTING NEW FINISH					
		DOOR							
			DOOR EXIST.	DOUR				DEMARKS	
154								REWARKS	
151		CORR	90	PAINTED	PTD HM PTD HM	P-10	P-10 P-10		
2S1		STAIR	90	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
2S2-2		CORR.	90	PAINTED	PTD HM	P-10	P-10		E
3S1		CORR.	90	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
3S2-2		CORR.	90	PAINTED	PTD HM	P-X	P-X	P-X DENOTES ACCENT COLOR AT EACH UNIT, SEE FINISH SCHEDULE	E
4S1		CORR.	90	STAINED WOOD	PTD HM		P-10		
452-2		CORR.	90	STAINED WOOD	PTD HM PTD HM	CLEAR SEALER	P-X P-10	P-X DENOTES ACCENT COLOR AT EACH UNIT, SEE FINISH SCHEDULE	E F
5S2-2		CORR.	90	PAINTED	PTD HM	P-X	P-X	P-X DENOTES ACCENT COLOR AT EACH UNIT, SEE FINISH SCHEDULE	E
100	STOR.	CORR.	45	PAINTED	PTD HM	P-10	P-10		E
100A	IDF	STOR.	45	PAINTED	PTD HM	P-10	P-10		E
101	CORR.	RITUAL STOR.	45	PAINTED	PTD HM	P-10	P-10		E
102	CORR.	ELEC.	45	PAINTED	PTD HM	P-10	P-10		
103		CORR.	45		PTD HM	P-10	P-10 P-10		E
105	MECH.	CORR.	45	PAINTED	PTD HM	P-10	P-10		E
106-1	CHAPTER MTG RM	CORR.	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
106-2	CHAPTER MTG RM			PAINTED	PTD HM	P-10	P-10		E
107	CORR.	HOUSEKEEPING	45	PAINTED	PTD HM	P-10	P-10		E
200				STAINED WOOD	PTD HM	CLEAR SEALER	P-10		
201	MECH.		45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10 P-10		E
202	PANTRY	KITCHEN		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
206	CORR.	MECH.	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
300	CORR.	ENTRY	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
300A	ENTRY	BEDROOM		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
300A-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		
300A-2 300B		BEDROOM	45	STAINED WOOD		CLEAR SEALER	P-10 P-10		E
300B-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		- E
300B-2	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
300C	ENTRY	TOILET		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
301	CORR.	ENTRY	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		<u> </u>
301A	ENTRY	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
301A-1 301A-2		BEDROOM	45	STAINED WOOD			P-10 P-10		
301B	ENTRY	BEDROOM		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
301B-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
301B-2	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
301C	ENTRY	ADA TOILET		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
303			45				P-10		
400	CORR	ENTRY	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10	F-X DENOTES ACCENT COLOR AT EACH UNIT, SEE FINISH SCHEDULE	
400A	ENTRY	BEDROOM		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
400A-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
400A-2	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
400B	ENTRY	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		
400B-1 400B-2	CLOSET	BEDROOM	45	STAINED WOOD			P-10		
400B-2 400C	ENTRY	TOILET	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		– <u> </u>
401	CORR.	ENTRY	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
401A	ENTRY	BEDROOM		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
401A-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
401A-2	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
401B 401R-1			45			CLEAR SEALER	P-10		
401B-2	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
401C	ENTRY	TOILET		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
403	STUDY	LAUNDRY	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
404	MECH.	CORR.	45	PAINTED	PTD HM	P-X	P-X	P-X DENOTES ACCENT COLOR AT EACH UNIT, SEE FINISH SCHEDULE	E
500	CORR.	ENTRY	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
500A		BEDROOM	45				P-10		
500A-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
500B	ENTRY	BEDROOM		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
500B-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
500B-2	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
500C	ENIRY			STAINED WOOD	PTD HM		P-10		<u>E</u>
501	UKK.		45				P-10		
501A-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEAL FR	P-10		
501A-2	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
501B	ENTRY	BEDROOM		STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
501B-1	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM	CLEAR SEALER	P-10		E
501B-2	CLOSET	BEDROOM	45	STAINED WOOD	PTD HM		P-10		<u> </u>
501C			<u></u> лс				P-10		
503	MECH	CORR	40			P-X	P-X	P-X DENOTES ACCENT COLOR AT FACH UNIT. SEE FINISH SCHEDULE	
L	1 <b></b>		UTU			1 1 1			

Key	Nam
EP-1	
EP-4	
EXIST	
LVT-1	
N/A	
P-1	
P-2	
P-3	
P-4	
P-5	
P-6	
P-7	
P-8	
P-9	
P-10	
P-11	
P-12	
P-13	
P-14	
P-15	
P-20	
P-21	
RB-1	
Repair	
SS-1	
T-1	
T-2	
WB-1	
WB-2	

## \*\*\* THIS DOOR SCHEDULE APPLIES TO ALL UNITS E, D, & C \*\*\*

## \*\* G.C. TO COORDINATE CONDUIT ROUTING WITH DOOR

**OPERATOR LOCATIONS \*\*** 

\*\* INSTALL THE FOLLOWING AT EACH DOOR TO RECEIVE A NEW

- **DOOR OPERATOR:**
- (2) EACH 8310-819F FLUSH BOXES
- (2) EACH 8310-818T OPERATORS (1) EACH LCN 4360 LOW ENERGY OPERATOR

(1) EACH 6211 x FSE 12/24v VONDUPRIN EL STRIKE

FINISH LEGEND					
Description	Manufacturer	Style	Color	Finish	Comments
Epoxy Paint - Field	Sherwin Williams		SW-2844 Roycroft Mist Gray	Eggshell	Toilets Rooms
Epoxy Paint - Ceililng	Sherwin Williams		SW-7007 Ceiling Bright White	Eggshell	Toilets Rooms
Existing Finish, To Remain					
Vinyl Flooring	Tandus	Venue Wood	American Cherry		Match Phase 1 Finish / Texture
Not In the Scope of Work	N/A		N/A		Not In the Scope of Work for Finishes, see Elec. Dwgs
Wall Paint - Field	Sherwin Williams		SW-2844 Roycroft Mist Gray	Eggshell	Field Color
Wall Paint	Sherwin Williams		SW-6417 Tupelo Tree	Eggshell	Accent Color
Wall Paint	Sherwin Williams		SW-6514 Respite	Eggshell	Accent Color
Ceiling Paint	Sherwin Williams		SW-7007 Ceiling Bright White	Eggshell	Ceiling Color
Accent Paint	Sherwin Williams		SW-6504 Sky High	Eggshell	Accent Color
Accent Paint	Sherwin Williams		SW-7603 Pool House	Eggshell	Accent Color
Accent Paint	Sherwin Williams		SW-6513 Take Five	Eggshell	Accent Color
Accent Paint	Sherwin Williams		SW-6302 Innocence	Eggshell	Accent Color
Accent Paint	Sherwin Williams		SW-9145 Sleepy Hollow	Eggshell	Accent Color
HM Frames, Stair Railings & Stringers	Sherwin Williams		SW-0077 Classic French Gray	Eggshell	Railings & Hollow Metal Door Frames
Accent Paint- Phase 2 (Unit A)	Sherwin Williams		SW-6856 Reverie Pink	Eggshell	Accent Color - Phase 2
Accent Paint- Phase 2 (Unit B)	Sherwin Williams		SW-6866 Heartthrob	Eggshell	Accent Color - Phase 2
Accent Paint- Phase 2 (Unit C)	Sherwin Williams		SW-9148 Smoky Azurite	Eggshell	Accent Color - Phase 2
Accent Paint- Phase 2 (Unit D)	Sherwin Williams		SW-9141 Waterloo	Eggshell	Accent Color - Phase 2
Accent Paint- Phase 2 (Unit E)	Sherwin Williams		SW-6283 Thistle	Eggshell	Accent Color - Phase 2
Millwork - Field Color	Sherwin Williams		SW-7643 Pussywillow	Pearl	Millwork - Field Color
Millwork - Accent Color	Sherwin Williams		SW-6244 Naval	Pearl	Millwork - Accent Color
Rubber Base	Johnsonite				If Add Alt. #1 is Accepted by Owner
Existing, To Remain					Repair Base as Required, Match Existing
Quartz	Silestone		Calacatta Gold	Polished	Eased edge, 3 cm
Floor Tile	Daltile		TBD - GC to Submit Samples	Matte	2"x2" Square Tile
Wall Tile	Architectural Ceramics	Himalaya	Dolomite	Matte	12x24, 1/3 Offset
Wood Base, Painted					Match Wall Color
Wood Base, Painted			SW-0077 Classic French Gray	Eggshell	P-10

## **RENOVATION NOTES:** 1) <u>ALL</u> ACOUSTIC CEILING <u>TILES</u> TO BE REPLACED - MATCH EXISTING. 2) G.C. TO BUDGET FOR REPLACING 10% OF ACT GRID / AS REQUIRED. 3) EXISTING GWB CEILING TO REMAIN, PATCH AND REPAIR AS REQUIRED AFTER EQUIPMENT AND FIXTURES ARE INSTALLED. 4) ALL EXISTING GWB CEILING TO RECEIVE NEW PAINT - SEE FINISH SCHEDULE. 5) PATCH OR REPLACE ANY DAMAGED GYPSUM AT WALLS AS REQUIRED.



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DOCUMENT HISTORY				

ESIGNED BY SKO DRAWN BY SKO PROJECT NUMBER C08792.001 DATE 12/16/21 DOOR SCHEDULE & FINISH LEGEND - UNITS A-E DRAWING NO.



/ 1/2" = 1'-0"



..001 - Emory Sord 792001\_A\_2021\_( 4\_DM

BIM 360: Renovati 12/14/20:

30x42 - 12/16/20 copyright 2021

D







16 Ph 2 - Millwork Section @ Refrigerators 3/4" = 1'-0"

15 Ph 2 - Millwork Section @ Hood 3/4" = 1'-0"

2





BOX

7 Kitchen Millwork Elev. at West Wall - Ph 2 1/2" = 1'-0"



1 Kitchen Enlarged Plan - Units C, D, E 1/2" = 1'-0"



3/4" = 1'-0"

(10 Ph 2 - Millwork Section @ Open Shelving3/4" = 1'-0"

6

12/16/21 KITCHEN MILLWORK @ UNITS C, D, E DRAWING NO. A-712-2

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2 Kitchen Elevation (North) @ Unit A 1/2" = 1'-0"







С

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8 Kitchen Elevation (North) @ Unit B 1/2" = 1'-0"





3



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HANICAL DEMOLITION / RELOC	MECHANI
EXISTING MECHANICAL EQUIPMENT, DEV BE SELECTIVELY DEMOLISHED	"X" EXISTI BE SE
EXISTING MECHANICAL EQUIPMENT TO B AND RE-LOCATED.	"XR" EXISTI AND R
EXISTING MECHANICAL DEVICE OR EQUIP	"XT" EXISTI
RE-LOCATED EXISTING MECHANICAL EQU	"XL" RE-LO
EXISTING MECHANICAL EQUIPMENT OR D	"E" EXISTI
EXAMPLE X XR XT XI	<u>EXAM</u>
	<u> </u>
ABBREVIATIONS	
ACCESS DOOR ABOVE FINISHED FLOOR	AD AFF
ACCESS PANEL ARCHITECT AIR SEPARATOR	AF ARCH. AS
	ATC
BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER F	BTUH
COMBUSTION AIR SUPPLY COOLING COIL CUBIC FEET PER MINUTE	CAS CC CEM
CLEAN OUT CONNECT	CO CONN.
CONTRACTOR CONTROL PANEL CURRENT TRANSFORMER	CONTR CP CT
CONTROL VALVE	CV
DRY BULB TEMPERATURE (* ) DIRECT DIGITAL CONTROL DIAMETER	DB DDC DIA.
	DN DR DWG
EACH	EA
EXHAUS I AIR ENTERING AIR TEMPERATUR <sup>I</sup> ELECTRICAL CONTRACTOR	E.A. EAT EC
EXTERNAL STATIC PRESSURE EXISTING TO BE REMOVED	ESP ETBR
ENTERING WATER TEMPERATEXISTING	EWT EX.
EXHAUST	EXH
FREE AREA FULL LOAD AMPS FLOOR DRAIN	FA FLA FLD
FIRE PROTECTION CONTRACT	FPC FPM
FEET	FT
GALLONS GENERAL CONTRACTOR GENERAL EXHAUST	GAL GC GF
GALLONS PER MINUTE	GPM
HEATING COIL HOOD EXHAUST	HC HE
HORSE POWER HEATING, VENTILATION AND /	HP HVAC
INCHES INSIDE DIAMETER	IN ID
KITCHEN EXHAUST KILOWATTS	KE KW
LEAVING AIR TEMPERATURE	LAT
MECHANICAL CONTRACTOR	MEC
NOT IN CONTRACT NOT TO SCALE	NIC NTS
OUTSIDE AIR OUTSIDE AIR TEMPERATURE	ΟΑ
OPPOSED BLADE DAMPER OUTSIDE DIAMETER	OBD OD
PLUMBING CONTRACTOR PRESSURE DROP POUNDS PER SOLVARE INCH	PC PD PSI
RETURN AIR	RA
SUPPLY AIR SUPPLY AIR TEMPERATI IRE	SA SAT
SQUARE FEET STATIC PRESSURE	SF SP
STAINLESS STEEL	SS
THERMOSTAT TYPICAL	TSTAT TYP
UNDERCUT DOOR	UC
VARIABLE AIR VOLUME	VAV
WET BULB TEMPERATURE (°F WIRE MESH SCREEN	WB WMS
EQUIPMENT TAGS	
EXHAUST HOOD	EH
FAN (GENERIC) FAN COIL UNIT	F FCU
HEAT PUMP	HP

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MUA

# LOCATION LEGEND

T, DEVICE AND/OR SYSTEM TO T TO BE REMOVED, STORED

EQUIPMENT TO BE REMOVED R RE-USE AL EQUIPMENT OR DEVICE. T OR DEVICE TO REMAIN



URE CONTROL

PER HOUR

RE (°F)

RATURE TOR SSURE VED

**IPERATURE** 

NTRACTOR

AND AIR CONDITIONING

SH THERMAL UNITS PER HOUR

TOR

JRE (°F)

MAKE-UP AIR UNIT

	DRAWING NOTES
SG-A, RG-A or EG-A 10"Ø, 12"x12" 200 TYP 3	SUPPLY/RETURN/EXHAUST REGISTER OR GRILLE TAG NECK SIZE OR LENGTH IF LINEAR DIFFUSER AIR VOLUME (CFM) QUANTITY
SD-A-# 10"Ø, 12"x12" 200 TYP 3	SUPPLY DIFFUSER TAG NECK SIZE OR LENGTH IF LINEAR DIFFUSER AIR VOLUME (CFM) QUANTITY
ACCU-1	EQUIPMENT TAG
$\underline{\land}$	REVISION NOTE
$\langle 1 \rangle$	DEMOLITION WORK NOTE
	NEW WORK NOTE
$\bullet$	CONNECT TO EXISTING
$\bigcirc$	CAP EXISTING
	LIMIT OF DEMOLITION
	ELECTRICAL AREA - THE AREA INDICATED IS AN ELECTRICAL ZONE. DUCTWORK, PIPING, AND SYSTEMS SHALL NOT RUN THROUGH THIS ZONE. EXCEPTION:PIPES, DUCTS, AND EQUIPMENT DEDICATED TO SERVE THE ZONE ARE ALLOWED. COORDINATE WITH ELECTRICAL CONTRACTOR AND COMPLY WITH ALL CODE CLEARANCE

REQUIREMENTS.

		PIPING LEGEND
—— RS ——	RS	REFRIGERANT SUCTION
—— RL ——	RL	REFRIGERANT LIQUID
	RHG	REFRIGERANT HOT GAS
—— CD ——	CD	A.C. CONDENSATE DRAIN
	Е	EXISTING PIPING TO REMAIN
	х	PIPING TO BE REMOVED
<del></del>		PIPE OFF BOTTOM
—o—		PIPE OFF TOP
——————		RUN-OUT OFF TOP
<del></del>		RUN-OUT OFF BOTTOM
		BRANCH CONNECTION (DIRECTION TO BE FIELD DETERMINED)
O		PIPE UP
		PIPE DOWN
<b></b>		DIRECTION OF FLOW
<u> </u>		PIPE BREAK
<del>,</del>		DRAIN PIPE PITCH AND FLOW
	C.O.	CLEAN OUT

	DUCTWORK LEGEND
> 12"x8" -	RECTANGULAR DUCTWORK - FIRST DIMENSION IS SIDE SHOWN (IN.)
> 12"Ø ->	ROUND DUCTWORK - DIMENSION IS DUCT DIAMETER (IN.)
> (E) 12"x8" ->	EXISTING DUCTWORK TO REMAIN
(X) 12"x8"	EXISTING DUCTWORK TO BE DEMOLISHED
	RECTANGULAR SUPPLY DUCTWORK UP
> X	RECTANGULAR SUPPLY DUCTWORK DOWN
	RECTANGULAR RETURN/EXHAUST DUCTWORK UP
>	RECTANGULAR RETURN/EXHAUST DUCTWORK DOWN
- 0	ROUND DUCTWORK UP
	ROUND DUCTWORK DOWN
	BEAM PENETRATION BY DUCTWORK
>	CAPPED DUCTWORK
	ACOUSTICALLY LINED DUCTWORK
	FLEXIBLE CONNECTION
	RECTANGULAR TRANSITION
	RECTANGULAR TO ROUND DUCTWORK TRANSITION
> X	MITERED ELBOW WITH TURNING VANES
	1/2" WIRE MESH SCREEN (ON OPEN END DUCT)

WITH SAME OR COMPATIBLE DUCTWORK MATERIAL. DELIVER TO OWNER. THE SITE. 16. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED. NOTIFY ARCHITECT AND OWNER. VERIFICATIONS REQUIRED.

INSTALLATIONS.

OBSERVERS.

## **GENERAL NOTES**

MECHANICAL WORK IS INDICATED DIAGRAMMATIC. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD (SPACING SUBJECT TO ARCHITECT'S REVIEW AND APPROVAL) TO AVOID CONFLICT WITH OTHER TRADES AND EXISTING SITE CONDITIONS.

. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE WORK OF THIS SECTION. REPORT IN WRITING TO THE ARCHITECT CONDITIONS WHICH MIGHT ADVERSELY AFFECT WORK. NO EXTRA PAYMENT WILL BE PROVIDED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER.

. WORK REQUIRING INTERRUPTION OF BUILDING SERVICES SHALL BE CAREFULLY REVIEWED AND COORDINATED WITH THE OWNER TO MINIMIZE FREQUENCY AND DURATION OF SERVICE INTERRUPTIONS. 4. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF CEILING GRID, DIFFUSERS, AND GRILLES. 5. ALL INSTALLATIONS SHALL PERMIT AND PROVIDE ACCESSIBILITY FOR SERVICE AND REPLACEMENT OF ALL NEW EQUIPMENT AND EXISTING EQUIPMENT IMPACTED BY THIS WORK.

6. ALL MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF GOVERNING LOCAL, STATE, AND FEDERAL SEISMIC CODES. PARTICULAR ATTENTION SHALL BE MADE TO VIBRATION ISOLATION, ANCHORING, AND BALANCING REQUIREMENTS.

7. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND STANDARDS SET FORTH IN NFPA, SMACNA, AND ASHRAE FOR LOW PRESSURE DUCTWORK SYSTEMS.

8. ALL DUCTS, PIPES, AND EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE WITH PROPER ALLOWANCES FOR CONTRACTION, EXPANSION, AND VIBRATION ELIMINATION.

9. ROOM THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE SHOWN OR DIRECTED. COORDINATE LOCATIONS WITH ARCHITECTURAL WALL PROTECTIONS.

10. ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR FREE AREA REQUIRED.

11. ALL PIPING IS TO BE SLOPED A MINIMUM OF 1/4" PER HUNDRED FEET IN THE DIRECTION OF DRAINAGE. 12. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED ON THIS PROJECT.

13. COORDINATE ENTIRE INSTALLATION WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR

## **DEMOLITION GENERAL NOTES**

1. CONTRACTOR SHALL VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED

PRIOR TO COMMENCING WORK OF THIS SECTION, EXAMINE SITE AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. DETERMINE EXACT LOCATIONS OF EXISTING EQUIPMENT, PIPING AND CONTROLS. REPORT TO OWNER ANY CONDITIONS THAT MIGHT ADVERSELY AFFECT WORK. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.

ABANDONING OF DUCTWORK, PIPING OR EQUIPMENT IN PLACE SHALL NOT BE ALLOWED. COMPLETE REMOVAL REQUIRED UNLESS NOTED OTHERWISE.

4. PIPING TO BE REMOVED: REMOVE PORTION OF PIPING INDICATED TO BE REMOVED AND CAP REMAINING PIPING WITH SAME OR COMPATIBLE PIPING MATERIAL.

5. DUCTS TO BE REMOVED: REMOVE PORTION OF DUCTS INDICATED TO BE REMOVED AND CAP REMAINING DUCTS

6. EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT.

EQUIPMENT TO BE REMOVED AND SALVAGED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT AND

8. COMPLY WITH ALL STATE AND LOCAL CODES AS TO REMOVAL AND DISPOSAL OF EQUIPMENT REMOVED FROM

9. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION. 10. REMOVE PREVIOUSLY ABANDONED WORK IN THE WAY OF EXISTING CONSTRUCTION, OR AS NOTED.

11. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

12. COMPLY WITH ANSI A10.6 (SAFETY REQUIREMENTS FOR DEMOLITION OPERATIONS) AND NFPA 241 (STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS).

13. PERMITS: GIVE ALL REQUIRED NOTICES, FILE ALL REQUIRED PLANS AND SPECIFICATIONS RELATING TO THE WORK OF THIS SECTION WITH THE PROPER AUTHORITIES AND PAY FOR ANY REQUIRED PERMITS.

14. ALL AIR-CONDITIONING EQUIPMENT AND SYSTEMS SHALL BE REMOVED WITHOUT RELEASING REFRIGERANTS. REFRIGERANT RECOVERY IS TO BE PERFORMED BY A REFRIGERANT RECOVERY TECHNICIAN CERTIFIED BY AN EPA-APPROVED CERTIFICATION PROGRAM.

15. ALL EQUIPMENT AND SYSTEMS TO BE DEMOLISHED UNDER THIS SECTION AND NOT DESIRED BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ALL SUCH EQUIPMENT FROM THE SITE PROMPTLY AFTER DETACHMENT FROM BUILDING STRUCTURE.

### 17. IT IS UNKNOWN WHETHER HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY

18. EXISTING PIPING SHOWN ON DRAWINGS DOES NOT INDICATE FULL EXTENT OF PIPING DEMOLITION. FIELD

	CONTROL LEGEND
T	HEAT/COOL THERMOSTAT
(Hs)	HUMIDITY SENSOR
	CO2 SENSOR
(F)	DUCT STATIC PRESSURE SENSOR
_ · ·	CONTROL LINE

	DAMPERS
 ACD	MOTORIZED OR AUTOMATIC CONTROL DAMPER
 VD	VOLUME DAMPER

5

### **HVAC SHEET INDEX** Sheet Number Sheet Name HVAC LEGENDS, NOTES, AND INDEX 1-000-2 M-111-3 HVAC LEVEL 1 DEMOLITION PLAN M-112-2 HVAC LEVEL 2 DEMOLITION PLAN M-113-2 HVAC LEVEL 3 DEMOLITION PLAN M-114-2 HVAC LEVEL 4 DEMOLITION PLAN M-115-2 HVAC LEVEL 5 DEMOLITION PLAN M-116-2 HVAC PENTHOUSE DEMOLITION PLAN M-221-2 HVAC LEVEL 1 PLAN M-222-2 HVAC LEVEL 2 PLAN M-223-2 HVAC LEVEL 3 PLAN M-224-2 HVAC LEVEL 4 PLAN M-225-2 HVAC LEVEL 5 PLAN M-226-2 HVAC PENTHOUSE PLAN M-700-2 HVAC SCHEDULES M-800-2 HVAC RISER DIAGRAM M-801-2 HVAC RISER DIAGRAM M-802-2 HVAC CONTROL DIAGRAMS M-803-2 HVAC CONTROL DIAGRAMS M-900-2 HVAC DETAILS Total: 19





	DEMOLITION NOTES
1	REMOVE EXISTING WALL MOUNTED FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. CONDENSATE PIPING SHALL BE EXISTING TO REMAIN AND BE REUSED FOR NEW WORK.
2	REMOVE EXISTING CEILING CASSETTE TYPE FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. RETAIN CONDENSATE PIPING FOR RECONNECTION DURING NEW WORK PHASE.
3	REMOVE EXISTING TEMPERATURE SENSOR/UNIT CONTROLLER AND ALL ASSOCIATED WIRING.
4	DEMOLISH AND REMOVE EXISTING REFRIGERANT MAINS AND RISERS BETWEEN BRANCH CONTROL BOX AND HEAT PUMP UNIT.
5	DEMOLISH AND REMOVE EXISTING REFRIGERANT RISERS BETWEEN BRANCH CONTROL BOX AND HEAT PUMP UNIT.
6	DEMOLISH AND REMOVE EXISTING HEAT PUMP AND ALL ASSOCIATED PIPING, SUPPORTS, CONTROLS, AND ACCESSORIES.
7	DEMOLISH AND REMOVE EXISTING CENTRALIZED COMMUNICATION CONTROLLER AND ASSOCIATED POWER SUPPLY FOR VRF SYSTEM.
8	REMOVE EXISTING SIEMENS CO2 SENSOR SERVING EXISTING TERV UNIT. EXISTING CONDUIT SHALL REMAIN FOR REUSE IN NEW WORK. THIS NOTE APPLIES TO 7 ADDITIONAL CO2 SENSORS FOUND IN LODGES D-J THAT ARE NOT SHOWN ON PLANS.
9	REMOVE EXISTING VAV CONTROLLER AND ALL ASSOCIATED WIRING. THIS NOTES APPLIES TO 7 ADDITIONAL VAVS FOUND IN LODGES D-J THAT ARE NOT SHOWN ON PLAN.
10	REMOVE EXISTING EQUIPMENT CONTROLS FOR ALL EQUIPMENT LOCATED WITHIN MECHANICAL ROOM AND ALL ASSOCIATED OUTDOOR UNITS. INTENT IS TO PROVIDE NEW CONTROLS SYSTEM FOR EXISTING EQUIPMENT.
11	FOR LODGES C-J, REMOVE EXISTING SPACE PRESSURE SENSOR SERVING SPACE. EXISTING CONDUIT SHALL REMAIN FOR REUSE IN NEW WORK. LODGES D-J INCLUDE 7 ADDITIONAL PRESSURE SENSORS NOT SHOWN ON PLANS.
12	REMOVE EXISTING SUPPLY DUCT STATIC PRESSURE SENSORS SERVING TERV-3, AND TERV-2 (LOCATED IN LODGE J, NOT SHOWN).





	DEMOLITION NOTES
1	REMOVE EXISTING CEILING CONCEALED TYPE FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. RETAIN CONDENSATE PIPING FOR RECONNECTION.
2	DISCONNECT FAN COIL UNIT FROM EXISTING DUCTWORK. RETAIN DUCTWORK FOR RECONNECTION DURING NEW WORK PHASE
3	REMOVE EXISTING TEMPERATURE SENSOR/UNIT CONTROLLER AND ALL ASSOCIATED WIRING.
4	REMOVE EXISTING SIEMENS T/H/C SENSORS SERVING EXISTING TERV UNIT. EXISTING CONDUIT SHALL REMAIN FOR REUSE IN NEW WORK. THIS NOTE APPLIES TO 7 ADDTIONAL SETS OF T/H/C SENSORS FOUND IN LODGES C-J THAT ARE NOT SHOWN ON PLAN.
5	REMOVE EXISTING VAV CONTROLLER AND ALL ASSOCIATED WIRING. THIS NOTES APPLIES TO 14 ADDITIONAL VAVS FOUND IN LODGES D-J THAT ARE NOT SHOWN ON PLAN.
6	EXISTING VRF FCU CONTROLLER TO BE REMOVED AND RELOCATED TO NEW WALL LOCATION. LOCATION TO BE COORDINATED WITH ARCHITECT.
7	EXISTING KITCHEN HOOD AND ASSOCIATED FIRE PROTECTION SYSTEM SHALL REMAIN.
8	REMOVE EXISTING SPACE PRESSURE SENSOR SERVING SPACE. EXISTING CONDUIT SHALL REMAIN FOR REUSE IN NEW WORK. THIS NOTES APPLIES TO 7 ADDITIONAL PRESSURE SENSORS FOUND IN LODGES D-J THAT ARE NOT SHOWN ON PLANS.
9	REMOVE EXISTING EXHAUST DUCT STATIC PRESSURE SENSORS SERVING TERV-3, AND TERV-2 (LOCATED IN LODGE J, NOT SHOWN).
10	REMOVE EXISTING SUPPLY DUCT STATIC PRESSURE SENSORS SERVING TERV-1.
	•





	DEMOLITION NOTES
1	REMOVE EXISTING WALL MOUNTED FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. CONDENSATE PIPING SHALL BE EXISTING TO REMAIN AND BE REUSED FOR NEW WORK.
2	REMOVE EXISTING CEILING CASSETTE TYPE FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. RETAIN CONDENSATE PIPING FOR RECONNECTION DURING NEW WORK PHASE.
3	REMOVE EXISTING TEMPERATURE SENSOR/UNIT CONTROLLER AND ALL ASSOCIATED WIRING.
4	DISCONNECT FAN COIL UNIT FROM EXISTING DUCTWORK. RETAIN DUCTWORK FOR RECONNECTION DURING NEW WORK PHASE.
5	DEMOLISH AND REMOVE EXISTING REFRIGERANT RISERS BETWEEN BRANCH CONTROL BOX AND HEAT PUMP UNIT.
6	REMOVE EXISTING VAV CONTROLLER AND ALL ASSOCIATED WIRING. THIS NOTE APPLES TO ALL APARTMENT UNITS C-J. LODGES D-J INCLUDE 7 ADDITIONAL VAVS NOT SHOWN.
7	REMOVE EXISTING SPACE PRESSURE SENSOR SERVING SPACE. EXISTING CONDUIT SHALL REMAIN FOR REUSE IN NEW WORK.
8	REMOVE EXISTING EXHAUST DUCT STATIC PRESSURE SENSOR SERVING TERV-1.
-	





DEMOLITION NOTES			
1	REMOVE EXISTING WALL MOUNTED FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. CONDENSATE PIPING SHALL BE EXISTING TO REMAIN AND BE REUSED FOR NEW WORK.		
2	REMOVE EXISTING CEILING CASSETTE TYPE FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. RETAIN CONDENSATE PIPING FOR RECONNECTION DURING NEW WORK PHASE.		
3	REMOVE EXISTING TEMPERATURE SENSOR/UNIT CONTROLLER AND ALL ASSOCIATED WIRING.		
4	DISCONNECT FAN COIL UNIT FROM EXISTING DUCTWORK. RETAIN DUCTWORK FOR RECONNECTION DURING NEW WORK PHASE		
5	DEMOLISH AND REMOVE EXISTING REFRIGERANT RISERS BETWEEN BRANCH CONTROL BOX AND HEAT PUMP UNIT.		
6	REMOVE EXISTING VAV CONTROLLER AND ALL ASSOCIATED WIRING. THIS NOTE APPLES TO ALL APARTMENT UNITS C-J. LODGES D-J INCLUDE 7 ADDITIONAL VAVS NOT SHOWN.		
7	REMOVE EXISTING EQUIPMENT CONTROLLERS AND ALL ASSOCIATED WIRING WITHIN ATTIC SPACE. EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. DESIGN INTENT IS TO REPLACE THE EXISTING BMS WITH NEW DELTA CONTROLS PROVIDED BY CCI.		





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DEMOLITION NOTES		
1	REMOVE EXISTING WALL MOUNTED FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. CONDENSATE PIPING SHALL BE EXISTING TO REMAIN AND BE REUSED FOR NEW WORK.	
2		
3		
4	DISCONNECT FAN COIL UNIT FROM EXISTING DUCTWORK. RETAIN DUCTWORK FOR RECONNECTION DURING NEW WORK PHASE.	
5	DEMOLISH AND REMOVE EXISTING REFRIGERANT RISERS BETWEEN BRANCH CONTROL BOX AND HEAT PUMP UNIT.	
6	REMOVE EXISTING VAV CONTROLLER AND ALL ASSOCIATED WIRING. THIS NOTE APPLES TO ALL APARTMENT UNITS C-J. LODGES D-J INCLUDE 7 ADDITIONAL VAVS NOT SHOWN.	





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	DRAWING NOTES
1	EXTEND AND RECONNECT NEW FANCOIL TO NEW RS/RL AND EXISTING CONDENSATE PIPING AT LOCATION OF PREVIOUSLY DEMOLISHED UNIT.
2	EXTEND NEW REFRIGERANT LINESET UP TO NEW BRANCH CONTROLLER BOX ON THE THIRD FLOOR.
3	INSTALL NEW BRANCH CONTROLLER BOX IN MECHANICAL CLOSET. CONNECT TO NEW REFRIGERANT PIPING SERVING NEW FAN-COILS. REFER TO SCHEMATIC PIPING DIAGRAM FOR MORE INFORMATION.
4	INSTALL NEW T/H/C SENSORS AT LOCATION OF PREVIOUSLY DEMOLISHED SENSORS. CONNECT TO NEW CONTROLS SYSTEM.
5	INSTALL NEW T/H/C SENSORS AT LOCATION OF PREVIOUSLY DEMOLISHED SENSORS. CONNECT TO NEW CONTROLS SYSTEM.LODGES D-J INCLUDE 7 ADDITIONAL SENSORS OF EACH TYPE THAT ARE NOT SHOWN ON THE DRAWINGS.
6	INSTALL NEW VAV CONTROLLER AND CONNECT TO NEW BMS. THIS NOTE APPLIES TO 14 ADDITIONAL VAVS FOUND IN LODGES D- NOT SHOWN ON PLANS.
7	NEW CONTROLLER SHALL BE MOUNTED IN A NEW LOCATION THAT IS COORDINATED WITH THE FIRE EXTINGUISHER AND CASEWORK. LOCATION TO BE DETERMINED IN FIELD WITH THE ARCHITECT.
8	EXISTING VRF FCU SPACE TEMPERATURE SENSOR SHALL BE MOVED TO A NEW LOCATION COORDINATED WITH THE FIRE EXTINGUISHER AND CASEWORK. LOCATION TO BE DETERMINED IN FIELD WIHT THE ARCHITECT.
9	INSTALL NEW SPACE PRESSURE SENSOR AT LOCATION OF PREVIOUSLY DEMOLISHED SENSOR. CONNECT TO NEW CONTROLS SYSTEM. THIS NOTE APPLIES 7 TO ADDITIONAL SPACE PRESSURE SENSORS FOUND IN LODGES D-J NOT SHOWN ON PLANS.
10	INSTALL NEW EXHAUST DUCT STATIC PRESSURE SENSOR SERVING TERV-3 AT LOCATION OF PREVIOUSLY DEMOLISHED SENSOR CONNECT TO NEW CONTROLS SYSTEM. NOTE ALSO APPLIES TO EXHAUST DUCT PRESSURE SENSOR SERVING TERV-2 FOUND IN LODGE J NOT SHOWN ON DRAWINGS.
11	INSTALL NEW SUPPLY DUCT STATIC PRESSURE SENSOR AT LOCATION OF PREVIOUSLY DEMOLISHED SENSOR. CONNECT TO NEW CONTROLS SYSTEM.





	DRAWING NOTES
1	EXTEND AND RECONNECT NEW FANCOIL TO NEW RS/RL AND EXISTING CONDENSATE PIPING AT LOCATION OF PREVIOUSLY DEMOLISHED UNIT. PROVIDE UNIT WITH OPTIONAL SUPPLY AIR CONNECTION. RECONNECT TO EXISTING LAUNDRY SUPPLY AIR BALANCE TO INDICATED AIRFLOW.
2	INSTALL NEW BRANCH CONTROLLER BOX IN MECHANICAL CLOSET. CONNECT TO NEW REFRIGERANT PIPING SERVING NEW FAN-COILS. REFER TO SCHEMATIC PIPING DIAGRAM FOR MORE INFORMATION.
3	INSTALL NEW VAV CONTROLLER AND CONNECT TO NEW BMS. THIS NOTE APPLIES TO 7 ADDITIONAL VAVS FOUND IN LODGES D-J NOT SHOWN ON PLANS.
4	INSTALL NEW SPACE PRESSURE SENSOR AT LOCATION OF PREVIOUSLY DEMOLISHED SENSOR. CONNECT TO NEW CONTROLS SYSTEM.
5	INSTALL NEW EXHAUST DUCT STATIC PRESSURE SENSOR AT LOCATION OF PREVIOUSLY DEMOLISHED SENSOR. CONNECT TO NEW CONTROLS SYSTEM.





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	DRAWING NOTES
1	EXTEND AND RECONNECT NEW FANCOIL TO NEW RS/RL AND EXISTING CONDENSATE PIPING AT LOCATION OF PREVIOUSLY DEMOLISHED UNIT. PROVIDE UNIT WITH OPTIONAL SUPPLY AIR CONNECTION. RECONNECT TO EXISTING LAUNDRY SUPPLY AIR. BALANCE TO INDICATED AIRFLOW.
2	INSTALL NEW BRANCH CONTROLLER BOX IN MECHANICAL CLOSET. CONNECT TO NEW REFRIGERANT PIPING SERVING NEW FAN-COILS. REFER TO SCHEMATIC PIPING DIAGRAM FOR MORE INFORMATION.
3	INSTALL NEW VAV CONTROLLER AND CONNECT TO NEW BMS. THIS NOTE APPLIES TO 7 ADDITIONAL VAVS IN APARTMENTS D-J THAT ARE NOT SHOWN ON PLANS.
4	INSTALL NEW EQUIPMENT CONTROLLERS FOR ALL EQUIPMENT LOCATED WITHIN ATTIC AND CONNECT TO NEW BMS. REFER TO HVAC CONTROLS FOR CONTROLS SEQUENCES. CONTROLS SHALL BE DELTA CONTROLS PROVIDED BY CCI.

![](_page_39_Figure_4.jpeg)

![](_page_40_Picture_0.jpeg)

1 HVAC DUCTWORK AND PIPING PLAN - LEVEL 5 M-225-2 1/4" = 1'-0" 0 4' 8' 16'

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	DRAWING NOTES
1	EXTEND AND RECONNECT NEW FANCOIL TO NEW RS/RL, AND EXISTING CONDENSATE PIPING AT LOCATION OF PREVIOUSLY DEMOLISHED UNIT. PROVIDE UNIT WITH OPTIONAL SUPPLY AIR CONNECTION. RECONNECT TO EXISTING LAUNDRY SUPPLY AIR BALANCE TO INDICATED AIRFLOW.
2	INSTALL NEW BRANCH CONTROLLER BOX IN MECHANICAL CLOSET. CONNECT TO NEW REFRIGERANT PIPING SERVING NEW FAN-COILS. REFER TO SCHEMATIC PIPING DIAGRAM FOR MORE INFORMATION.
3	INSTALL NEW VAV CONTROLLER AND CONNECT TO NEW BMS. THIS NOTE APPLIES TO 7 ADDITIONAL VAVS IN APARTMENTS D-J THAT ARE NOT SHOWN ON PLANS.
4	INSTALL NEW EQUIPMENT CONTROLLERS FOR ALL EQUIPMENT LOCATED WITHIN ATTIC ABOVE AND CONNECT TO NEW BMS. REFER TO HVAC CONTROLS FOR CONTROLS SEQUENCES. THIS NOTE APPLIES TO ALL EQUIPMENT WITHIN ATTIC OF UNITS C-J.

![](_page_40_Figure_5.jpeg)

![](_page_40_Figure_7.jpeg)

![](_page_41_Figure_0.jpeg)

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![](_page_41_Figure_10.jpeg)

GENERAL NOTES

(4) PREMIUM EFFICIENCY MOTOR

(1) PRE-BID WALK-THRU SITE VISIT REQUIRED FOR FIELD VERIFICATION OF COMPONENTS BEFORE ORDERING (2) FOR TERV-3 & TERV-4: ONLY COMPONENTS SCHEDULED ARE TO BE REPLACED, EXISTING CASING TO REMAI (3) TERV-1 CONSIST OF A COMPLETE AHU REPLACEMENT INCLUDING ALL COMPONENTS AND CASING. UNIT TO SECTIONS ALLOWING ASSEMBLY THROUGH SINGLE MAN DOOR.

2

(5) FILTERS SHALL BE SELECTED AT THEIR HALF LIFE PRESSURE DROP

		_																									_									-
						SU		AN EX		OUTSIDE	EXHAUST		1	1	C								HEATIN			1		FAN E				STARTERS	FII	_TER (4)	_	
IDENTIFICATIO	I AREA SERVED	DESIGN BASIS	MODEL NO.	SYSTEM TYPE	PRESSURE CLASSIFICATIO	N CFM	E.S.P. (IN)	T.S.P. (IN) CFM	E.S.P. T.( (IN) (I	S.P. AIRFLOW N) (CFM)	AIRFLOW (CFM)	COIL MODEL QTY. NUMBER	DEHUMID. AIR (CFM)	MAX. FV (FPM)	Z ENTERING DB/WB (°F	LEAVING DB/WB (°F)	CAPACITY (BTU/HR)	REFRIGERAI	ROWS & FINS PER IN	MAX. AIR SP LOSS (IN)	ТҮРЕ	CFM TEMP CFM RISE (°F)	CAPACII (KW)	TY CONTROL TYPE	ELEC.	MAX. AIR SP LOSS (IN)	R SUPPLY FAN ) HP (EA)	EXHAUST FAN HP (EA)	ENERGY ) WHEEL HP	ELEC.	TYPE	LOCATION QT	, MODULE TYPE	VELOCITY FLAT/CART (FPM)	OPERATING WEIGHT (LBS)	ACCESSORIES
TERV-1	VENTILATION AIR	DAIKIN	CAH008GDMGM	DX	MEDIUM	2,400	2.50	4.84 1,500	1.50 2.	50 2,400	1,500	1	2,400	500	83.9 / 69.7	48.1 / 47.2	159,170	R410-A	8 / 6	1	ELECTRIC REHEAT	2,400 26.3	20	SCR	460/3/60	0.04	(1) 5	(1) 1.5	1/2	460/3/60	A	FIELD VERIFY 3	1	300	4,000	1, 2, 3, 4, 5
TERV-2	VENTILATION AIR	DAIKIN		DX	MEDIUM	7,800	2.50	4.47 5,900	1.50 2.	63 7,800	5,900	5EJ1106B	7,800	500	83.0 / 69.2	54.8 / 53.3	380,010	R410-A	6 / 11	0.82	ELECTRIC REHEAT	7,800 25.1	70	SCR	460/3/60	0.10	(2) 6.3	(2) 2.3	1	460/3/60	D	UNIT MOUNTED 5	1	300	6,100	1, 2, 3, 4, 5
TERV-3	VENTILATION AIR	DAIKIN		DX	MEDIUM	7,800	2.50	4.47 5,900	1.50 2.	63 7,800	5,900	5EJ1106B	7,800	500	83.0 / 69.2	54.8 / 53.3	380,010	R410-A	6 / 11	0.82	ELECTRIC REHEAT	7,800 25.1	70	SCR	460/3/60	0.10	(2) 6.3	(2) 2.3	1	460/3/60	D	UNIT MOUNTED 5	1	300	6,100	1, 2, 3, 4, 5

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# ENERGY RECOVERY VENTILATOR UNIT SCHEDULE

STARTER ACCESSORIES A = VARIABLE FREQUENCY DRIVE (VFD) FOR EACH MOTOR B = COMBINATION 2-SPEED, 2-WINDING STARTER BY DIVISION 26 C = COMBINATION X-LINE STARTER BY DIVISION 26 D = ECM MOTOR WITH FUSED DISCONNECT

AIN	
SHIP IN	UNDER 3'

## **GENERAL NOTES**

3

(1) NOMINAL COOLING CAPACITY BASED ON 95.0°F OUTDOOR AIR (2) PREMIUM EFFICIENCY DIRECT DRIVE MOTOR

						4 = BAS BACNET	INTERFACE	8 = DIGITAL SCROLI	COMPRESSOR ON CIRC	CUIT #2		
							UNIT ELEC. (3)					
IDENTIFICATION	DESIGN BASIS	MODEL NO.	SYSTEM	REFRIGERANT	TOTAL COOLING CAP. (BTUH) (1)	ELEC.	MCA	MFA	MAXIMUM SIZE (L x W x H) (IN)	OPERATING WEIGHT (LBS)	ACCESSORIES	REMARKS / DUPLICATES
CU-1	DAIKIN	RSC015D	TERV-1	R410-A	163,540	460/3/60	32.2	40	99 x 58 x 56	1,850	1, 2, 3, 4, 5, 6, 7, 8	
CU-2	DAIKIN	RSC040D	TERV-2	R410-A	406,852	460/3/60	80.6	90	99 x 80 x 56	2,500	1, 2, 3, 4, 5, 6, 7, 8	
CU-3	DAIKIN	RSC040D	TERV-3	R410-A	406,852	460/3/60	80.6	90	99 x 80 x 56	2,500	1, 2, 3, 4, 5, 6, 7, 8	
	•							•	•	•		

DESIGN CONDITIONS

- 1. OUTSIDE DESIGN CONDITIONS: SUMMER: WINTER:
- 2. GENERAL BUILDING CRITERIA:
- WALL U-FACTOR ROOF U-FACTOR GLASS U-FACTOR GLASS SHADING COEFFICIENT
- LIGHTNING: Equipment: People:
- 4. COMFORT HEATING ROOM TYPES:
- BEDROOMS GENERAL ASSEMBLY AREAS 5. COMFORT COOLING:
- ROOM TYPES: BEDROOMS GENERAL ASSEMBLY AREAS
- 6. CODES:

EQUIPMENT ACCESSORIES

1 = REPLACEMENT SHALL INCLUDE ENTHALPY WHEEL. REFER TO ENTHALPY WHEEL PERFORMANCE SCHEDULE

2 = SEPARATE 120V CONNECTION TO UNIT MOUNTED VFD FOR ERV WHEEL 3 = SEPARATE 460V CONNECTION TO UNIT MOUNTEDSUPPLY FAN AND RETURN FAN VFDS 2 = FLAT FILTER & CARTRIDGE FILTER

4 = 460V CONNECTION TO ELECTRIC HEATING COIL 5 = MANUFACTURER TO PROVIDE SEPARATE MODULATING HOT GAS REHEAT COIL FILTER TYPES

FLAT FILTER: 2" MERV-8 PLEATED FILTER CARTRIDGE FILTER: AAF VARICEL SH, 85% EFF., MERV 13

1 = FLAT FILTER

# TERV UNIT CONDENSING UNIT SCHEDULE

#### EQUIPMENT ACCESSORIES

1 = MANIFOLD KIT 2 = REFRIGERANT PIPING CURB 3 = 30" HIGH EQUIPMENT SUPPORTS 5 = PROVIDE HAIL GUARD 6 = SEPARATE 115V 20A FIELD OUTLET SERVICE CONNECTION

7 = PROVIDE UNIT WITH HOT GAS BYPASS TEE 8 = DIGITAL SCROLL COMPRESSOR ON CIRCUIT #2

# ENTHALPY WHEEL PERFORMANCE SCHEDULE

GENERAL NOTES 1. WHEEL, CASING, AND MOTOR TO BE REPLACED. REPLACEMENT WHEEL PERFORMANCE TO MATCH PERFORMANCE BELOW.

2. MANDATORY PRE-BID WALK-THRU SITE VISIT REQUIRED FOR FIELD VERIFICATION.

					ENTHA	LPY WHEEL PER	FORMANCE					
				SUMME		WINTER						
IDENTIFICATION	AREA SERVED	PATH	E.A.T. (DB/WB) (°F)	L.A.T. (DB/WB) (°F)	DELTA GRAINS	MAX. AIR SP LOSS (IN)	E.A.T. (DB/WB) (°F)	L.A.T. (DB/WB) (°F)	DELTA GRAINS	MAX. All LOSS (		
		OA	95.0 / 77.0	83.9 / 69.7	(25.0)	0.69	18.0 / 14.9	46.4 / 39.2	(16.5)	0.42		
IERV-I	VENTILATION AIR	EX	75.0 / 62.5	92.5 / 75.2	39.5	0.68	72.0 / 55.5	23.7 / 21.0	27.4	0.42		
		OA	95.0 / 77.0	83.0 / 69.2	(26.2)	0.73	18.0 / 14.9	49.2 / 41.0	(17.5)	0.54		
IERV-2		EX	75.0 / 62.5	90.7 / 73.9	34.6	0.73	72.0 / 55.5	28.4 / 25.3	24.3	0.54		
		OA	95.0 / 77.0	83.0 / 69.2	(26.2)	0.73	18.0 / 14.9	49.2 / 41.0	(17.5)	0.54		
IERV-3	VENTILATION AIR	EX	75.0 / 62.5	90.7 / 73.9	34.6	0.73	72.0 / 55.5	28.4 / 25.3	24.3	0.54		

					HEA	AT PUMP SCHED	OULE					
OTES:												
MOUNT ON N	NEW 4" HOUSEK	EEPING PAD.										
	COOLIN	NG DATA	HEATIN	IG DATA				ELECTRICAL			BASIS OF	F DESIGN
TAG	AMB F	COOLING MBH	AMB F	HEATING MBH	FAN QTY	VOLTS	PH	HZ	MCA	MOCP	MFR	MODE
P-15	95	120	15	135	2	208	3	60	43	50	DAIKIN	REY
P-16	95	120	15	135	2	208	3	60	43	50	DAIKIN	REY
P-17	95	72	15	75	1	208	3	60	30.2	35	DAIKIN	REY
P-18	95	72	15	75	1	208	3	60	30.2	35	DAIKIN	REY
P-19	95	72	15	75	1	208	3	60	30.2	35	DAIKIN	REY
<b>-</b> 20	95	72	15	75	1	208	3	60	30.2	35	DAIKIN	REY

		VRV FAN COIL UNIT SCHUDULE												
1. OUTSIDE DESIGN CONDITIONS:				FAN DATA			E	LECT	RICAL	_	BASIS OF	DESIGN		
SUMMER: WINTER:	92 F DB / 74 F WB 25 F	TAG	TYPE	TOTAL CFM	COOLING MBH	HEATING MBH	VOLTS	PH	HZ	MCA	MFR	MODEL		
		FCU-15-1	WALL MOUNTED	260	3	3	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-15-2	WALL MOUNTED	260	3	3	208	1	60	0.4	DAIKIN	FXAQ		
2. GENERAL BUILDING CRITERIA.		FCU-15-3	CEILING CASSETTE	1165	32	3	208	1	60	0.4	DAIKIN	FXZQ		
	00	FCU-15-4	CEILING CASSETTE	1165	32	3	208	1	60	0.4	DAIKIN	FXZQ		
	.08	FCU-15-5	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
GLASS U-FACTOR	.05	FCU-15-6	WALL MOUNTED	260	6	3	208	1	60	0.4	DAIKIN	FXAQ		
GLASS SHADING COEFFICIENT	.5	FCU-15-7	CEILING CASSETTE	440	7	2	208	1	60	0.4	DAIKIN	FXZQ		
		FCU-15-8	WALL MOUNTED	260	6	3	208	1	60	0.4	DAIKIN	FXAQ		
3 GENERAL BUILDING DESIGN LOAD REQUIREMENTS:		FCU-15-9	WALL MOUNTED	260	4	2	208	1	60	0.4	DAIKIN	FXAQ		
3. GENERAL BOILDING DEGION LOAD REQUIREMENTS.		FCU-16-1	HORIZONTAL CONCEALED	565	23	4	208	1	60	0.8	DAIKIN	FXSQ		
	0.5-1.W/SE	FCU-16-2	HORIZONTAL CONCEALED	565	23	6	208	1	60	0.8	DAIKIN	FXSQ		
EQUIPMENT:	1-2 W/SF	FCU-16-3	WALL MOUNTED	260	3	2	208	1	60	0.4	DAIKIN	FXAQ		
PEOPLE:	250 BTUH/PERSON	FCU-16-4	WALL MOUNTED	260	3	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-16-5	CEILING CASSETTE	440	7	2	208	1	60	0.4	DAIKIN	FXZQ		
4 COMFORT HEATING		FCU-16-6	WALL MOUNTED	260	3	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-16-7	WALL MOUNTED	260	3	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-16-8	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
BEDROOMS	68F +-2F	FCU-16-9	WALL MOUNTED	260	6	3	208	1	60	0.4	DAIKIN	FXAQ		
GENERAL ASSEMBLY AREAS	68F +-2F	FCU-16-10	CEILING CASSETTE	440	7	2	208	1	60	0.4	DAIKIN	FXZQ		
		FCU-16-11	WALL MOUNTED	260	6	3	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-16-12	WALL MOUNTED	260	4	2	208	1	60	0.4	DAIKIN	FXAQ		
5. COMFORT COOLING:		FCU-17-1	CEILING CASSETTE	1165	32	3	208	1	60	0.4	DAIKIN	FXZQ		
		FCU-17-2	WALL MOUNTED	290	12	0	208	1	60	0.4	DAIKIN	FXAQ		
BEDROOMS	76F +-2F / 50%RH	FCU-17-3	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
GENERAL ASSEMBLY AREAS	76F +-2F / 50%RH	FCU-17-4	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-17-5	CEILING CASSETTE	440	5	2	208	1	60	0.4	DAIKIN	FXZQ		
6 CODES		FCU-17-6	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-17-7	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-18-1	HORIZONTAL CONCEALED	800	29	7	208	1	60	0.8	DAIKIN	FXSQ		
		FCU-18-2	CEILING CASSETTE	565	14	4	208	1	60	0.4	DAIKIN	FXZQ		
REFER TO PROJECT TITLE PAGE		FCU-19-1	WALL MOUNTED	565	24	0	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-19-2	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-19-3	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-19-4	CEILING CASSETTE	440	7	2	208	1	60	0.4	DAIKIN	FXSQ		
		FCU-19-5	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-19-6	WALL MOUNTED	260	5	2	208	1	60	0.4	DAIKIN	FXAQ		
		FCU-20-1	HORIZONTAL CONCEALED	1165	26	10	208	1	60	0.4	DAIKIN	FXSO		
								<u> </u>						

![](_page_42_Picture_47.jpeg)

DRAWING NO. MO-700-2

![](_page_43_Figure_0.jpeg)

1 C-J APARTMENT REFRIGERANT PIPING DEMOLITION SCHEMATIC DIAGRAM M-800-2 NO SCALE

VRF SYSTEM NOTES:

- 1. ENERGY RECOVERY HEAT PUMP SHALL BE CAPABLE OF PROVIDING SIMULTANEOUS HEATING AND COOLING TO EACH FAN COIL UNIT. 2. EACH FAN COIL UNIT SHALL BE PROVIDED WITH AN ISOLATION VALVE ON THE REFRIGERANT
- PIPING. 3. THE VARIABLE CAPACITY, HEAT PUMP HEAT RECOVERY AIR CONDITIONING SYSTEM SHALL BE CONNECTED TO THE NEW BUILDING CONTROL MANAGEMENT SYSTEM AT THE CENTRALIZED CONTROLLER. ALL SET POINTS AND PROGRAMS SHALL BE ABLE TO BE MONITORED AND CONTROLLED BY THE CONTROLS USER INTERFACE. THE EMCS SHALL NOT BE USED TO CONTROL THE HEAT PUMP REFRIGERANT SYSTEM. ALL INTERNAL CONTROLS FOR THE HEAT PUMP SYSTEMS SHALL BE PERFORMED BY THE INTEGRAL FACTORY CONTROL SYSTEM. FACTORY CONTROL SYSTEM SHALL BE ENABLED TO BE CONTROLLED THROUGH THE INTERNET FROM A REMOTE
- USERS 4. SCHEMATIC SHOWS TYPICAL CONFIGURATIONS AND COMPONENTS REQUIRED FOR INSTALLATION OF THE BASIS OF DESIGN HEAT PUMP SYSTEM (DAIKIN). REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS BASED ON THE PROJECT SPECIFIC LAYOUT AND LENGTH OF REFRIGERANT PIPING. PRIOR APPROVED MANUFACTURERS SHALL, PRIOR TO BID, PROVIDE A PROJECT SPECIFIC SCHEMATIC SHOWING ALL INFORMATION REQUIRED TO PRICE THE INSTALLATION OF THEIR HEAT PUMP SYSTEM. SCHEMATIC SHALL INCLUDE PIPE LENGTHS, PIPE SIZES, BRANCH/CIRCUIT CONTROLLERS, SPECIALTY PIPE FITTINGS/BRANCHES, ELECTRICAL LOADS AND CONTROLS. ANY SYSTEM COMPONENTS OR ELECTRICAL CHANGES REQUIRED TO INSTALL A HEAT PUMP SYSTEM OTHER THAN THE BASIS OF DESIGN SHALL BE INCLUDED IN THE PROJECT BID. INSTALLATION AND DESIGN OF ANY SYSTEM OTHER THAN THE BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND, AFTER PROJECT REWARD, BE OF NO ADDITIONAL COST TO THE OWNER.

VRF SEQUENCE OF OPERATION

- 1. SEE PLANS FOR LOCATIONS OF TEMPERATURE SENSORS, PANELS, DAMPERS, VALVES AND EQUIPMENT: WHERE SUCH DEVICES ARE NOT INDICATED, HOWEVER REQUIRED BY THE SEQUENCES, THEY SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE CONTRACT AND
- LOCATED IN THE FIELD BY THE ARCHITECT. 2. A FULL COMMUNICATIONS INTERFACE AND COMPLETE INTEROPERABILITY WITH CAMPUS AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED TO PERFORM THE FUNCTIONS HEREIN DESCRIBED OR INDICATED IN THE CONTRACT DOCUMENTS. ALL TEMPERATURE, PRESSURE AND TIME SET POINTS SHALL BE FULLY ADJUSTABLE FROM TECH EMCS.

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		ROOF		
· · _J			NEW 2-PIPE REFRIGERANT BRANCH — PIPING LINESET (TYPICAL)	
X)FCU		FIFTH FLOOR		
 		FOURTH FLOOR	NEW ISOLATION VALVE ON PIPING OU TO FCU. LOCATE VALVE AT BC BO (TYPICAI	лт – )Х L)
X)FCU				
(X)FCU		THIRD FLOOR		
NG 2-PIPE ANCH PIPING ) 	DEMOLISH AND REMOUNIT. (TYP. ALL)	SECOND FLOOR VE EXISTING FAN COIL	NEW 3-PIPE REFRIGERANT RISER EXTENDING FROM HP TO NEW BRANCH CONTROL BOXES.	
		FIRST FLOOR	HP-1 HP-2	
		BASEMENT LEVEL		

(2) C-J APARTMENT REFRIGERANT PIPING SCHEMATIC DIAGRAM M-800-2 NO SCALE

LOCATION. CONTROL ACCESS SHALL BE PROVIDED FOR A MINIMUM OF FIVE (5) SIMULTANEOUS

![](_page_43_Figure_17.jpeg)

- BASEMENT LEVEL

![](_page_43_Figure_19.jpeg)

VRF FAN COIL UNIT SEQUENCE OF OPERATIONS

PART 1 - MASTER HEATING AND COOLING CONTROL

A. THE VARIABLE REFRIGERANT SYSTEM ONBOARD CONTROLS SHALL BE RESPONSIBLE FOR MASTER HEATING AND COOLING CONTROL OF ALL FAN COIL UNITS AND AIR COOLED CONDENSING UNITS. B. THE VARIABLE REFRIGERANT SYSTEM ONBOARD CONTROLS SHALL NORMALLY CONTROL THE SYSTEM HEATING AND COOLING MODES BASED ON SPACE TEMPERATURES.

PART 2 - FAN COIL UNIT CONTROL A. SYSTEM CONTROL

1. THE FAN COIL UNIT SHALL BE ENERGIZED VIA A WALL MOUNTED REMOTE CONTROLLER OR THE BAS

THROUGH THE BACNET INTERFACE. 2. WHEN ALL INDOOR UNITS ARE DEENERGIZED, THE OUTDOOR UNIT SHALL DEENERGIZE AND ALL CONTROLS SHALL RETURN TO THEIR NORMAL POSITIONS READY FOR RESTARTING.

B. SPACE TEMPERATURE CONTROL

1. THE INDOOR UNIT INTERNAL CONTROLS SHALL MODULATE THE UNIT REFRIGERANT EXPANSION VALVE TO MAINTAIN THE SPACE TEMPERATURE SET POINT AS SEEN BY THE SPACE TEMPERATURE SENSOR. 2. THE INDOOR UNIT SHALL MODULATE ITS EXPANSION VALVE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 75F (ADJ).

D. FAN / VANE CONTROL

1. FAN SPEED AND VANE DIRECTION (IF APPLICABLE) SHALL BE ADJUSTABLE BY THE USER AT THE WALL MOUNTED REMOTE CONTROLLER OR THE BAS THROUGH THE BACNET INTERFACE.

E. INTEGRATED FEATURES

1. TIME SCHEDULING

. DEMAND CONTROL 3. RUNTIME LOGGING

4. ZONE TEMPERATURE 5. FAN STATUS (FAN SPEED STATE)

6. ALARM / FAULT 7. START / START

8. FILTER RUN TIMER 9. FAN SPEED

G. PROGRAMS

10. (OCCUPIED / UNOCCUPIED) TEMPERATURE SET POINT 11. MODE REQUEST

F. ALARMS AND FAILURE MODES

1. A FAILURE OF THE FAN COIL UNIT SUPPLY FAN, AS SENSED BY ITS CURRENT TRANSDUCER SHALL BE ALARMED TO THE BAS. UPON SEEING FAILURE, THE BMS SHALL INDICATE ALARM. 2. A WATER LEVEL DETECTION DEVICE CONFORMING TO UL 508 SHALL BE PROVIDED THAT WILL SHUT OFF THE FAN COIL UNIT IN THE EVENT THAT THE PRIMARY DRAIN IS BLOCKED. THE DEVICE SHALL BE INSTALLED IN THE PRIMARY DRAIN LINE. OR IN THE EQUIPMENT SUPPLIED DRAIN PAN, LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.

1. UNOCCUPIED SET BACK PROGRAM SHALL BE INCORPORATED WHICH SHALL REDUCE ENERGY USAGE.

![](_page_43_Figure_42.jpeg)

![](_page_44_Figure_0.jpeg)

Α

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# NEW 2-PIPE REFRIGERANT BRANCH — PIPI

HP-17 HP-18 3 B APARTMENT REFRIGERANT PIPING SCHEMATIC DIAGRAM M-801-2 3/8" = 1'-0" 4' 8' 16'

PING LINESET (TYPICAL)	
FCU-19-2	FCU-19-3
	THIRD FLOOR
BC BOX NEW 2-PIPE REFRIGERANT BRANCH PIPING LINESET (TYPICAL)	FCU-20-2
FCU-19-1	SECOND FLOOR
BC BOX BC	G TO OUTLET /IDE WITH FIRST FLOOR
1	BASEMENT LEVEL
REFRIGERANT BRANCH	
FCU-17-3	FCU-17-4 FCU-17-5
BC BOX	THIRD FLOOR
NEW 2-PIPE REFRIGERANT BRANCH PIPING LINESET (TYPICAL)	SECOND FLOOR
FCU-17-1	CU-17-2
BC BOX CONNECT NEW REFRIGERANT BRANCH PIPING PORTS ON NEW BRANCH CONTROL BOX. PRO ISOLATION VALVES. (TYPICAL)	/IDE WITH

5

- BASEMENT LEVEL

![](_page_44_Figure_11.jpeg)

	TERMINAL UNIT SEQUENCE OF OPERATION         A. THE VARIABLE VOLUME AIR TERMINAL SHALL OPERATE ON AN OCCUPIED/UNOCCUPIED SCHEDULE. OCCUPIED/UNOCCUPIED MODES SHALL BE AS DETERMINED BY THE OCCUPIED/UNOCCUPIED PROGRAM OF THE BUILDING AUTOMATION SYSTEM (BAS).         B. THE SUPPLY AIR TERMINAL AIR VOLUME REGULATOR SHALL MODULATE TO MAINTAIN THE OCCUPIED SPACE AIRFLOW SETPOINT (MINIMUM SCHEDULED VALUE) PER THE RESPECTIVE SEQUENCES BELOW.         C. SLEEPING ROOMS:         1. TERMINAL UNITS SERVING SLEEPING AREAS SHALL MODULATE TO MAINTAIN THE MINIMUM SCHEDULED AIR FLOW. ON START OF THE CLOTHES DRYER, AS SENSED BY A CURRENT SWITCH HARD WIRED TO THE RESPECTIVE ORYER BOOSTER FAN, THE TERMINAL UNITS SHALL SUPPLY THE MAXIMUM SCHEDULED AIRFLOW.         D. CHAPTER ROOMS:         1. TERMINAL UNITS SERVING THE LOWER LEVEL (CHAPTER ROOMS) SHALL MODULATE TO MINITAIN CARBON DIOXIDE CONCENTRATION AS SENSED BY THE CARBON DIOXIDE SPACE SENSOR AT 700 PPM (ADJ) ABOVE OUTDOOR CONCENTRATION LEVEL.         E. KITCHEN         1. TERMINAL UNITS SERVING THE SECOND LEVEL (KITCHEN AREA) SHALL MODULATE TO MINITAIN CARBON DIOXIDE CONCENTRATION AS SENSED BY THE CARBON DIOXIDE SPACE SENSOR, AT 700 PPM (ADJ) ABOVE OUTDOOR CONCENTRATION LEVEL.         E. KITCHEN         1. TERMINAL UNITS SERVING THE SECOND LEVEL (KITCHEN AREA) SHALL MODULATE TO MINITAIN CARBON DIOXIDE CONCENTRATION AS SENSED BY THE CARBON DIOXIDE SPACE SENSOR, AT 700 PPM (ADJ) ABOVE OUTDOOR CONCENTRATION AS SENSED BY A CURRENT SWITCH HARD WIRED TO THE RESPECTIVE KITCHEN HAVAST FAN AS SENSED BY A CURRENT SWITCH HARD WIRED TO THE RESPECTIVE KITCHEN EXAMALST FAN AS SENSED BY A CURRENT SWITCH HARD WIRED TO THE RESPECTIVE KITCHEN ENANGES SENSED BY A CURRENT SWITCH HARD WIRED TO THE RESPECTIVE KITCHEN	AR FLOW MEASURING DEVICE (INTEGRAL TO AIR TERMINAL)	<ul> <li>EXHAUST FAN SEQUENCE OF OPERATION</li> <li>A. KITCHEN EXHAUST FAN CONTROL (EF-1 - EF-10)</li> <li>1. THE EXHAUST FANS SHALL BE ENERGIZED VIA A HARDWIRED SIGNAL FROM THE WALL MOUNTED SWITCH. WHEN THE SWITCH IS PLACED IN THE 'ON' POSITION THE FAN SHALL DEENERGIZE. WHEN THE SWITCH IS PLACED IN THE OFF POSITION THE FAN SHALL DEENERGIZE.</li> <li>B. DRYER BOOSTER FAN CONTROL (EF-13 - EF-26)</li> <li>1. THE EXHAUST FANS SHALL BE ENERGIZED VIA A HARDWIRED SIGNAL FROM THE RESPECTIVE DRYER. WHEN THE DRYER IS PLACED IN ENERGIZED THE FAN SHALL ENERGIZE. WHEN THE DRYER IS PLACED IN ENERGIZED THE FAN SHALL ENERGIZE. WHEN THE DRYER IS DEENERGIZED THE FAN SHALL DEENERGIZE.</li> <li>C. ALARMS &amp; FAILURE MODES</li> <li>1. A FAILURE OF THE EXHAUST FAN, AS SENSED BY ITS RESPECTIVE CURRENT TRANSDUCERS, SHALL BE ALARMED TO THE BAS. UPON SENSING FAILURE, THE BAS SHALL INDICATE ALARM AND DISABLE THE FAILED FAN.</li> <li>2. UPON ACTIVATION OF THE FIRE ALARM SYSTEM THE KITCHEN EXHAUST FANS SHALL AUTOMATICALLY DEENERGIZE AND REMAIN DEENERGIZE UNTIL THE ALARM IS DISABLED.</li> <li>3. UPON ACTIVATION OF THE EMERGENCY STOP SWITCH, LOCATED ADJACENT TO THE FIRE ALARM PANEL, THE KITCHEN EXHAUST FANS SHALL AUTOMATICALLY DEENERGIZE AND REMAIN DEENERGIZED UNTIL THE SWITCH IS DISABLED.</li> </ul>	DOMESTIC WATER HEATER SEQUENCE OF OPERATION         A. DOMESTIC HOT WATER HEATER SHALL OPERATE ON AN OCCUPIED/UNOCCUP SCHEDULE, AND SHALL BE TEMPERATURE CONTROLLED DURING THE OCCUPI SCHEDULE.         1. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL AUTOMATICALLY TURN T HEATER OFF DURING THE UNOCCUPIED PERIOD (ADJ) AND ON DURING TH OCCUPIED PERIOD (ADJ).         2. THE BAS VIA THE AQUASTAT, SHALL MONITOR THE TEMPERATURE IN THE SUPPLY HOT WATER LINE.         3. THE UPPER LIMIT OF THE AQUASTAT SHALL BE 130°F (ADJ) AND THE LOWE LIMIT SHALL BE 100°F (ADJ).         B. IF THE WATER HEATER FAILS OR FAILS TO START AS SENSED BY THE INTEGR/ CONTROL SYSTEM, THE BAS SHALL BE ALARMED.         C. IF THE RETURN WATER LINE TEMPERATURE FALLS OUTSIDE OF THE TEMPERA LIMITS, AS SENSED BY THE AQUASTAT, THE BAS SHALL BE ALARMED.         WH AL       1	IED ED HE R L TURE
D	<ul> <li>VOLUME REGULATORS SERVING THE SPECIFIC SPACE SHALL MODULATE TO THE MAXIMUM CFM SET POINT.</li> <li>2. ALL SUPPLY AIR TERMINAL AIR VOLUME REGULATORS SERVING THE SPECIFIC SPACE SHALL BE INDEXED BACK TO THE NORMAL SEQUENCE OF OPERATION AS DESCRIBED ABOVE AFTER THE SPACE CO2 LEVEL HAS BEEN RETURNED BELOW THE CO2 DIFFERENTIAL SET POINT FOR A PERIOD OF 30 MINUTES (ADJ)</li> <li>G. SPACE SENSORS</li> <li>1. THE BAS SHALL MONITOR THE SPACE TEMPERATURE, CARBON DIOXIDE, AND HUMIDITY FOR EACH LODGE AS SENSED BY THE WALL MOUNTED SENSORS.</li> <li>H. REFER TO AIR HANDLING UNIT SEQUENCE OF OPERATION FOR SYSTEM STATIC PRESSURE RESET REQUIREMENTS.</li> <li>I. UPON LOSS OF POWER, AIR VOLUME REGULATOR SHALL FAIL TO THE LAST POSITION HELD PRIOR TO LOSS OF POWER.</li> </ul>		EF BI EF BI EA		
C	RECIRCULATION PUMP SEQUENCE OF OPERATION A DOMESTIC HOT WATER RECIRCULATION PUMP RP-1 (120°F) SHALL OPERATE ON AN OCCUPIED/UNAOCUPIED SCHEDULE. 1. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL AUTOMATICALLY TURN THE PUMP OFF DURING THE UNOCCUPIED PERIOD (ADJ) AND ON DURING THE COCUPIED PERIOD (ADJ). 2. THE DAS VIA THE AQUASTAT, SHALL MONITOR THE TEMPERATURE IN THE RETURN WATER LINE. 3. THE UVPER LIMIT OF THE AQUASTAT SHALL BE 120°F (ADJ) AND THE LOWER LIMIT SHALL BE 100°F (ADJ). 4. IF THE PUMP FALLS OR FAILS TO START AS SENSED BY THE ITS DIFFERENTIAL PRESSURE SWITCH, THE BAS SHALL BE ALARMED. 5. IF THE RETURN WATER LINE TEMPERATURE FAILS OUTSIDE OF THE TEMPERATURE LIMITS, AS SENSED BY THE AQUASTAT, THE BAS SHALL BE ALARMED.	SCALE:       1         NONE       1         EMERGENCY GENERATOR SEQUENCE OF OPERATION       A. A SERIAL INTERFACE TO THE GENERATOR SHALL BE PROVIDED. THE BAS SHALL RELAY ONLY THE EXISTING POINTS NOTED IN THE INPUT/OUTPUT SUMMARY. GENERATOR ANNUNCIATOR PANEL IS LOCATED IN ELECTRICAL ROOM 11J-B02.         EMERGENCY GENERATOR       NUNCIATOR PANEL IS         LOCATED IN ELECTRICAL ROOM 11J-B02.       EMERGENCY GENERATOR         MDF TEMPERATURE SENSOR SEQUENCE OF OPERATION       EMERGENCY GENERATOR	KITCHEN AND DRYER EXHAUST FANS	SCALE:       2       DOMESTIC HOT WATER HEATERS         AL ENERGY METER SEQUENCE OF OPERATION       THE BUILDING AUTOMATION SYSTEM (BAS) SHALL TREND DATA RECEIVED FROM THE FOLLOWING METERING EQUIPMENT.       1.         1.       DIGITAL WATER METERS: THE BAS SHALL CALCULATE DOMESTIC COLD WATER USAGE FOR EACH SORORITY (UNITS A THROUGH J) BASED ON THE GPM METER.         2.       DIGITAL HOT WATER METERS: THE BAS SHALL CALCULATE DOMESTIC HOT WATER USAGE BY MONITORING THE HOT WATER SUPPLY METER. SUPPLY WATER FLOW MINUS THE RETURN FLOW OF 1 GPM (VERIFIED THROUGH TAB) SET BY A BALANCING VALVE EQUALS WATER USAGE (UNITS A THROUGH J).         3.       DIGITAL ELECTRICAL METERS:         a.       THE BAS SHALL MONITOR THE TWO 480V TRANSFORMER ELECTRICAL METERS LOCATED IN THE SWITCHGEAR ROOM 11J-B00. THE METERS "PULSE" INPUT SIGNAL SHALL BE CONVERTED TO "KWH" USAGE AND "KW" POWER DEMAND FOR EMORY'S INTERNAL USE.         b.       THE BAS SHALL MONITOR THE TEN 208V ELECTRICAL METERS ASSOCIATED WITH FLACH SORORITY LOCATED IN THE SWITCHGEAR ROOM 11J-B00. THE METERS "PULSE" INPUT SIGNAL SHALL BE CONVERTED TO "KWH" USAGE AND "KW" POWER DEMAND FOR EMORY'S INTERNAL USE.         c)       THE BAS SHALL MONITOR THE TEN 208V ELECTRICAL METERS ASSOCIATED WITH THE AAPARTMENT. THE METER IS LOCATED IN THE SWITCHGEAR ROOM 11J-B00. THE METERS "PULSE" INPUT SIGNAL SHALL BE CONVERTED TO "KWH" USAGE AND "KW" POWER DEMAND FOR EMORY'S INTERNAL USE.         c)       THE BAS SHALL MONITOR THE 208V ELECTRICAL METER ASSOCIATED WITH THE APARTMENT. THE METER IS LOCATED IN SWITCHGEAR ROOM 11.0.B00. THE METERS "PULSE" INPUT SIGNAL SHALL BE CONVERTED TO "KWH" USAGE AND "KW" POWER DEMAND FOR EMORY'S INTERNAL USE. </th <th>SCALE: NONE</th>	SCALE: NONE
	RP All 1 TS RP-1	<ul> <li>A. MDF ROOM TEMPERATURE SHALL BE MONITORED BY THE BAS AND ALARM ON A RISE ABOVE 80°F (ADJ).</li> <li>GROUND FLOOR ELEVATOR MACHINE ROOM TEMPERATURE SENSOR SEQUENCE OF OPERAT</li> <li>A. ELEVATOR MACHINE ROOM TEMPERATURE SHALL BE MONITORED BY THE BAS AND ALARM ON A RISE ABOVE 80°F (ADJ).</li> </ul>			
Scrotity Housing rotity Lodge Renos	RECIRCULATION PUMP         SCALE         4		SCALE: 6	DIGITAL ENERGY METERS	SCALE:       NONE
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4

![](_page_45_Figure_4.jpeg)

#### INPUT/OUTPUT SUMMARY

								INPUT	S								C	UTP	JTS							SYSTE	<u>EM F</u>	EA	TUF	₹ES				 OFNER
			MEA	ہ SUREI	ANALO D	G	CALC	D.	-		В	INA	٦Y			BIN	IARY		AN	IALO	G		A	٩LA	RM	S			Ρ	RO	GR/	AMS	3	GENER
POINT NO.	SYSTEM APPARATUS OR AREA POINT DESCRIPTION	TEMPERATURE VELOCITY PRESSURE	STATIC PRESSURE	RELATIVE HUMIDITY CARBON DIOXIDE		BTU/HR RUN TIME	CFM ENTHAL DV		STATUS (DIFF. PRESS.)	SMOKE FREEZESTAT	HIGH HUM. LIMIT	STATUS (AMPS)	VFD FAULT	HIGH STATIC LIMIT	START - STOP	DAMPER POSITION	VALVE POSITION	DAMPER POSITION	VALVE POSITION	FAN SPEED WHEEL SPEED		LOW TEMP LIMIT	HIGH DIFF. PRESSURE FAULT (VFD)	PROOF	FAILURE	SMOKE ALARM			TIME DELAY START	OCCUPIED/UNOCCUPIED	TEMPERATURE RESET	MORNING WARM-UP	LEAD/LAG	COLOR GRAPHICS
	TERV-1																										>	×		x	x			x
1,2,3,4,5	SUPPLY FAN SF-1	X				X	x					x	x x		Х	х				x			X	X	X									X
6,7,8,9,10	EXHAUST FAN EF-1	X				X	x					x	x x		х	х				х			X	X	X									X
11,12,13,	OUTSIDE AIR	x x					x																											X
15-20	EXHAUST AIR	x		x x						x		)	×			х								x	x	x								x
21	EXHAUST AIR	x																																x
22-27	SUPPLY AIR	x	x	x						x		2	×	x		x								x	x	x								x
28-31	TERW-1											)	×		х	х				х			X		x									x
32	FILTER F-1			X																			x											х
33	FILTER F-2			x																			x											x
34	DIFF. PRESSURE		×															X					x											x
35, 36	EA DAMPERS		×																									_	+			_	+	
																											$\left  \right $	-	+			-		

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![](_page_46_Figure_4.jpeg)

2

**TERV-1 SEQUENCE OF OPERATION** 

PART 1 - TEMPERATURE CONTROL SEQUENCES

PART 2 - MASTER HEATING AND COOLING CONTROL

A. SEE PLANS FOR LOCATIONS OF ALL TEMPERATURE SENSORS, PANELS, DAMPERS, AND EQUIPMENT; WHERE SUCH DEVICES ARE NOT INDICATED, HOWEVER REQUIRED BY THE SEQUENCES, THEY SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE CONTRACT AND LOCATED IN THE FIELD BY THE ARCHITECT. B. A FULL COMMUNICATIONS INTERFACE AND COMPLETE INTEROPERABILITY WITH THE CAMPUS CCI DDC AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED TO PERFORM THE FUNCTIONS HEREIN DESCRIBED OR INDICATED IN THE CONTRACT DOCUMENTS. ALL TEMPERATURE, HUMIDITY, CARBON DIOXIDE, PRESSURE AND TIME SET POINTS SHALL BE FULLY ADJUSTABLE FROM THE BAS.

BAS SHALL NORMALLY CONTROL THE SYSTEM HEATING AND COOLING MODES AS SELECTED ACCORDANCE WITH OUTDOOR AIR TEMPERATURE THROUGH BUILDING GLOBAL OUTDOOR AIR TEMPERATURE TO FIFTY (50) DEGREES FAHRENHEIT (ADJUSTABLE) AND ABOVE, SYSTEMS SHALL OPERATE IN Α. THE COOLING MODE. ON A FALL IN OUTDOOR AIR TEMPERATURE BELOW FIFTY (50) DEGREES FAHRENHEIT SYSTEMS SHALL OPERATE IN THE HEATING MODE.

B. CONTROL POINT ADJUSTMENT FOR "HEATING" AND "COOLING" CHANGEOVER TEMPERATURE SHALL BE BY THE BAS.

PART 3 - AIR HANDLING UNIT CONTROL

- A. SYSTEM CONTROL
- 1. SUPPLY FAN, EXHAUST FAN AND TOTAL ENERGY RECOVERY WHEEL SHALL BE MANUALLY INDEXED TO THE AUTOMATIC MODE AT THEIR RESPECTIVE VARIABLE FREQUENCY DRIVES. 2. THE AIR HANDLING UNIT SHALL BE ENERGIZED VIA REMOTE SIGNAL FROM THE BAS. THE BAS SHALL DETERMINE AND OPERATE THE UNIT ON AN OPTIMAL OCCUPIED AND UNOCCUPIED SCHEDULE WITH A 365 DAY/24 HOUR GRAPHIC INTERFACE SCHEDULE PROGRAM.
- AIR DAMPERS D-1 AND D-2 SHALL CLOSE.
- WHEN SUPPLY FAN SF-1 IS SOFT STARTED THROUGH THE BAS, THE EXHAUST FAN EF-1 SHALL SOFT START AND RUN CONTINUOUSLY AFTER SMOKE ISOLATION DAMPERS D-1 AND D-2 TO OPEN. UPON A FAILURE OF DAMPERS D-1 AND D-2 TO OPEN. THE AIR HANDLING UNIT SHALL BE DEENERGIZED AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS.
- 5. THE SUPPLY FAN SF-1 SPEED SHALL BE MODULATED VIA THE VFD TO MAINTAIN CONSTANT SYSTEM STATIC PRESSURE SET POINT AS SEEN BY SPT-2. THE SUPPLY FAN SHALL BE PROVIDED WITH A HIGH LIMIT CONTROL FUNCTION WHICH SHALL LIMIT THE CFM OF THE FAN TO 115% OF ITS SCHEDULED QUANTITY. THE HIGH LIMIT CONTROL FUNCTION SHALL OVERRIDE SYSTEM STATIC PRESSURE CONTROL, AND SHALL DEENERGIZE THE SUPPLY FAN IF THE CFM EXCEEDS THE HIGH CFM LIMIT.
- EVERY ONE (1) HOUR TO MAINTAIN AT A MINIMUM (1) AIR TERMINAL AIR VOLUME REGULATOR AT 90% OPEN POSITION WITH NO AIR TERMINAL AIR VOLUME REGULATORS EXCEEDING 95% OPEN.
- 8. A FAILURE OF EITHER SUPPLY OR EXHAUST FANS AS SENSED BY THEIR RESPECTIVE CURRENT TRANSDUCERS SHALL BE ALARMED TO THE BAS. UPON SENSING FAILURE, THE BAS SHALL INDICATE ALARM, DISABLE THE FAN AND RETURN ALL CONTROLS TO THEIR NORMAL POSITION.
- 9. STATIC PRESSURE SWITCH (SPT-1) SHALL ANNUNCIATE AN ALARM AT THE BAS AND DEENERGIZE THE SUPPLY FAN WHEN THE HIGH STATIC PRESSURE SET POINT IS REACHED (4" W.G. ADJUSTABLE).
- B. HEATING MODE
- THE "COOLING MODE" SEQUENCE.
- IDENTICAL TO "OCCUPIED MODE". THE AIR HANDLING UNIT SHALL BE DEENERGIZED WHEN THE TEMPERATURE IN ALL ZONES REACHES A MINIMUM OF SIXTY-TWO (62) DEGREES FAHRENHEIT (ADJUSTABLE).

#### COOLING MODE

- THE BAS SHALL SLOWLY MODULATE THE COOLING COIL TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT. ON A FALL IN TEMPERATURE SET POINT OF SEVENTY(70) DEGREES FAHRENHEIT.
- FURTHER FALL IN TEMPERATE, UNIT SHALL OPERATE IN ACCORDANCE WITH THE "HEATING MODE" SEQUENCE.
- SEVENTY(70) DEGREES FAHRENHEIT. WHEN THE EXHAUST AIR RELATIVE HUMIDITY, AS SEEN BY HS-1 DROPS BELOW FIFTY-FIVE (55) PERCENT, CONTROL OF COOLING COIL SHALL BE RETURNED TO DISCHARGE TEMPERATURE SENSOR TS-1. MODE". THE AIR HANDLING UNIT SHALL BE DEENERGIZED WHEN THE TEMPERATURE IN ALL ZONES REACHES A MINIMUM OF 80 DEGREES FAHRENHEIT (ADJUSTABLE).

#### EXHAUST AIR DAMPER CONTROL

- EXHAUST AIR MODULATING DAMPERS D-3 AND D-4 SHALL MODULATE TO MAINTAIN A SPACE DIFFERENTIAL PRESSURE OF 0.05 (ADJ) INCHES WATER COLUMN AS SENSED BY THE STATIC PRESSURE SENSOR MOUNTED IN THE CEILING PLENUM. 1. E. SMOKE CONTROL
- 1 TO THE FIRE ALARM SYSTEM, AS A SUPERVISORY ALARM ONLY. IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-72 NATIONAL FIRE ALARM CODE.
- 2. UPON AN INITIATION SIGNAL FROM THE FIRE ALARM SYSTEM, THE AIR HANDLING UNIT AND ALL ASSOCIATED SYSTEM EXHAUST FANS SHALL DEENERGIZE AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS. E. FILTERS
- F. OUTDOOR AIR AND CARBON DIOXIDE LEVELS
- 1. THE OUTDOOR AIRFLOW, AS SEEN BY OUTDOOR AIRFLOW MEASURING STATION, AND BUILDING CARBON DIOXIDE LEVEL, AS SEEN BY SPACE CARBON DIOXIDE SENSORS, SHALL BE TRENDED BY THE BUILDING BAS. G. ALARMS & FAILURE MODES
- 2. UPON A FAILURE OF THE TOTAL ENERGY RECOVERY WHEEL, AS SENSED BY ITS CURRENT TRANSDUCER, SHALL BE ALARMED TO THE BAS.
- H. PROGRAMS 1. OPTIMAL SUPPLY AIR TEMPERATURE RESET SCHEDULE SHALL BE INCORPORATED WHICH SHALL MINIMIZE THE OVERALL HEATING ENERGY, COOLING ENERGY AND FAN POWER CONSUMPTION WHILE MAINTAINING DESIGN TEMPERATURE, HUMIDITY AND CO2 CONDITIONS.

3

WHEN THE UNIT IS DEENERGIZED THROUGH THE BAS, ALL CONTROLS SHALL RETURN TO THEIR NORMAL POSITION READY FOR RESTARTING. THE SUPPLY AND EXHAUST FANS SHALL DEENERGIZE AND, AFTER AN ADJUSTABLE INTERVAL, OUTSIDE AIR AND EXHAUST

THE SYSTEM STATIC PRESSURE SET POINT SHALL BE RESET IN ACCORDANCE WITH ASHRAE STANDARD 90.1-2013, AS FOLLOWS: THE STATIC PRESSURE SET POINT SHALL BE RESET BASED ON THE WORST CASE SUPPLY AIR TERMINAL AIR REGULATOR POSITION, I.E. THE SYSTEM STATIC PRESSURE SET POINT SHALL BE RESET

7. THE EXHAUST FAN EF-1 SPEED SHALL BE MODULATED TO MAINTAIN CONSTANT DIFFERENTIAL BETWEEN THE EXHAUST AIR QUANTITY AS SEEN BY THE SUPPLY AIR QUANTITY AS SEEN BY THE SUPPLY AIR FLOW MONITORING DEVICE AND THE SUPPLY AIR QUANTITY AS SEEN BY THE SUPPLY AIR PLOY AIR FLOW MONITORING DEVICE TO PROVIDE PROPER BUILDING PRESSURIZATION.

10. OUTSIDE AIR AND EXHAUST AIR ISOLATION AND SMOKE DAMPERS D-1 AND D-2 SHALL FAIL CLOSED. UNIT SHALL DEENERGIZE IF ANY OF THE DAMPERS THAT ARE REQUIRED TO BE PROVEN OPEN FOR NORMAL OPERATION HAVE FAIL CLOSED.

11. THE BUILDING AUTOMATION SYSTEM SHALL OPERATE THE TOTAL ENERGY RECOVERY WHEEL TERW-1 BY COMPARING THE OUTDOOR AIR STREAM CONDITIONS (AS SEEN BY GLOBAL OUTDOOR TEMPERATURE AND HUMIDITY SENSORS) AND EXHAUST AIR STREAM CONDITIONS (AS SEEN BY TS-1 AND HS-1). THE BAS SHALL MODULATE THE TERV VARIABLE FREQUENCY DRIVE TO CONTROL THE WHEEL ROTATIONAL SPEED IN ORDER TO MAXIMIZE ENERGY RECOVERY WHILE MAINTAINING TERW-1 DISCHARGE AIR DEWPOINT TEMPERATURE AT OR BELOW SET POINT. IN THE HEATING MODE OF OPERATION, THE TERW SHALL OPERATE WHENEVER THE EXHAUST AIR ENTHALPY IS GREATER THAN THE OUTSIDE AIR ENTHALPY. SIMILARLY, IN THE COOLING MODE OF OPERATION THE TERW SHALL OPERATE WHENEVER THE EXHAUST AIR ENTHALPY. UPON A FAILURE OF THE TOTAL ENERGY RECOVERY WHEEL, THE WHEEL SHALL DEENERGIZE.

OCCUPIED MODE: SUPPLY AND EXHAUST FANS SHALL BE RUNNING; EXHAUST AND SMOKE/ISOLATION DAMPERS D-1 AND D-2 SHALL BE OPEN; TOTAL ENERGY RECOVERY WHEEL SPEED SHALL MODULATE TO MAXIMIZE HEAT RECOVERY (70 DEGREE LEAVING AIR TEMPERATURE). THE BAS SHALL MODULATE THE ELECTRIC HEATING COIL TO MAINTAIN A COIL DISCHARGE AIR TEMPERATURE OF 70 DEGREES. ON A RISE IN TEMPERATURE ABOVE ITS DISCHARGE AIR SET POINT OF SEVENTY (70) DEGREES FAHRENHEIT, THE BAS SHALL DEENERGIZE THE ELECTRIC HEATING COIL. ON A FURTHER RISE IN TEMPERATURE, UNIT SHALL OPERATE IN ACCORDANCE WITH

UNOCCUPIED MODE: THE BAS SHALL DETERMINE THE UNOCCUPIED MODE BASED ON A 365 DAY/24 HR GRAPHIC INTERFACE SCHEDULER PROGRAM. THE AIR HANDLING UNIT SHALL BE DEENERGIZED WHEN OUTDOOR AIR TEMPERATURE, AS SEEN BY GLOBAL OUTDOOR AIR TEMPERATURE SENSOR, DROPS BELOW FORTY (40) DEGREES FAHRENHEIT AND ANY TWO ROOM TEMPERATURES DROP BELOW THE REDUCED UNOCCUPIED TEMPERATURE SET POINT OF FIFTY-EIGHT (58) DEGREES FAHRENHEIT (ADJUSTABLE). DAMPER POSITIONS SHALL BE

OCCUPIED MODE: SUPPLY AND EXHAUST FANS SHALL BE RUNNING; OUTDOOR AIR AND SMOKE DAMPERS D-1 AND D-2 SHALL BE OPEN. TOTAL ENERGY RECOVERY WHEEL SPEED SHALL OPERATE TO MAXIMIZE HEAT RECOVERY (70 DEGREE LEAVING AIR TEMPERATURE).

EXHAUST AIR HUMIDITY SENSOR HS-1 SHALL OVERRIDE DISCHARGE AIR SENSOR TS-1 WHEN THE EXHAUST AIR RH REACHES SIXTY (60) PERCENT (ADJUSTABLE). COOLING COIL SHALL BE FULLY ENERGIZED TO LOWER THE SUPPLY AIR TEMPERATURE. HOT GAS REHEAT COIL SHALL ENERGIZE TO TEMPERATURE SET POINT OF UNOCCUPIED MODE: THE BAS SHALL DETERMINE THE UNOCCUPIED MODE BASED ON A 365 DAY/24 HR GRAPHIC INTERFACE SCHEDULER PROGRAM. THE AIR HANDLING UNIT SHALL BE DEENERGIZED WHEN OUTDOOR AIR TEMPERATURE, AS SEEN BY GLOBAL OUTDOOR AIR TEMPERATURE SENSOR, RISES ABOVE 90 DEGREES FAHRENHEIT AND ANY TWO ROOM TEMPERATURE SET POINT OF 85 DEGREES FAHRENHEIT (ADJUSTABLE). DAMPER POSITIONS SHALL BE IDENTICAL TO "OCCUPIED

ANY AIR DISTRIBUTION (HVAC) SMOKE DETECTOR SHALL, ON THE DETECTION OF PRODUCTS OF COMBUSTION, SHUT DOWN THE RESPECTIVE SUPPLY AND EXHAUST FANS SERVING THAT DISTRIBUTION SYSTEM AND CLOSE ALL SYSTEM DAMPERS IN ACCORDANCE WITH IMC. ALL HVAC SMOKE DETECTORS SHALL BE CONNECTED

1. DIFFERENTIAL PRESSURE TRANSMITTER INSTALLED ACROSS THE FILTER BANK SHALL ALARM THE BAS WHEN THEIR RESPECTIVE SETTINGS (ADJUSTABLE) ARE REACHED. INITIAL HIGH DIFFERENTIAL PRESSURE SET POINTS SHALL BE PER FILTER MANUFACTURER'S RECOMMENDATIONS.

1. A FAILURE OF THE SUPPLY FAN AND/OR THE EXHAUST FAN, AS SENSED BY THEIR RESPECTIVE CURRENT TRANSDUCERS, SHALL BE ALARMED TO THE BAS. UPON SENSING FAILURE, THE BAS SHALL INDICATE ALARM, DISABLE ALL FANS AND RETURN ALL CONTROLS TO THEIR NORMAL POSITION.

![](_page_46_Figure_59.jpeg)

![](_page_46_Figure_60.jpeg)

![](_page_46_Figure_61.jpeg)

SHADED BUILDING EXTERIOR WALL STAINLESS STEEL WEATHER SHIELD

GLOBAL OUTDOOR AIR TEMPERATURE SENSOR

GLOBAL OUTDOOR AIR HUMIDITY SENSOR -

GLOBAL OUTDOOR AIR CO2 SENSOR

![](_page_46_Picture_66.jpeg)

![](_page_46_Picture_69.jpeg)

D

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FLEXIBLE CONNECTION FURNACE-**REFRIGERATION PIPING SCHEMATIC** -SPLIT RING TYPE HANGER (SEE SPEC'S) -INSULATION SADDLE PIPE HANGER SUPPORTS Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers). 2. Metallic Sleeve -- (Optional) -- Nom 18 in. dia. (or smaller) Schedule 10 (or heavier) steel pipe. and sizes of metallic pipes or tubing may be used: A. Steel Pipe -- Nom 12 in. dia. (or smaller) Schedule 10 (or heavier) steel pipe. B. Copper Pipe -- Nom 6 in. dia. (or smaller) Regular (or heavier) copper pipe. C. Copper Tubing -- Nom 6 in. dia. (or smaller) Type L (or heavier) copper tubing. be used). 5. Firestop System -- The firestop system shall consist of the following: required to accommodate the required thickness of fill material. with top surface of floor or with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant

![](_page_47_Figure_8.jpeg)

![](_page_47_Figure_13.jpeg)

					P - PLUME	BING FIXTURE	E SCHED	ULE		
Mark							WA1 SUP	TER PLY		
Type	DESCRIPTION	MAUFACTURER	MODEL	ADA	WASTE SIZE	VENT SIZE	C.W.	H.W.	FAUCET / VALVE	ACCESSORIES / REMARKS
LAV-1	LAVATORY	KOHLER	K-2084	Y	2"	1 1/2"	1/2"	1/2"	KOHLER K-97282-4	
P-1	KITCHEN SINK	MOEN	G20214	Y	2"	1 1/2"	1/2"	1/2"	MOEN M-DURA 8227	1,2,3,4
WC-1	FLUSH TANK WATER CLOSET	KOHLER	K-3946	Y	4"	2"	1/2"	0"		

# ACCESSORIES / REMARKS

1. STRAINER: MCGUIRE 1151-WC CAST BRASS CHROME PLATED OFFSET BASKET STRAINER WITH POLISHED CHROME CAST BRASS ELBOW, 17 GUAGE 1-1/2 INCH SEAMLESS BRASS OFFSET TAILPIECE, HEAVY RUBBER BASIN WASHER AND FIBER FRICTION WASHER. OFFSET BASKET STRAINER SHALL BE IN COMPLIANCE WITH CSA OR OTHER RECOGNIZED TESTING AUTHORITY AND BEAR BOTH MANUFACTURER AND TESTING MARK.

TRAP: MCGUIRE 8912C CAST BRASS CHROME PLATED 1-1/2" X 1-1/2" P-TRAP WITH CLEANOUT WITH 17 GAUGE TUBULAR WALL BEND, CAST BRASS SLIP NUTS. TRAP SHALL BE IN COMPLIANCE WITH CSA AND BEAR BOTH MANUFACTURER AND TESTING MARK. 3. SUPPLIES AND STOPS: CHICAGO FAUCETS 1017-ABCP ANGLE STOP FITTING WITH SUPPLY TUBE AND LOOSE KEY. 2-1/4" TEE HANDLE, TAPERED

2

SQUARE BROACH, COMPRESSION CARTRIDGE, 1/2 NPT FEMALE THREAD INLET, 3/8 NPT FEMALE COMPRESSION OUTLET. REMARKS: SINK PROVIDED MUST BE 6" DEEP OPTION. INSTALLATION SHALL MEET THE AMERICAN WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. CONSTRUCTION PROFESSIONAL SHALL VERIFY AND COORDINATE ROUGH-IN

LOCATIONS.

2

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![](_page_48_Picture_12.jpeg)

- GOVERN.

DRAWING	NOTES

DEMOLITION NOTE

NEW WORK NOTE

CAP EXISTING

CONNECT TO EXISTING

LIMIT OF DEMOLITION

**REVISION CLOUD** 

REQUIREMENTS.

DRAWING REVISION DESIGNATION

ELECTRICAL AREA - THE AREA INDICATED IS AN

ELECTRICAL ZONE. DUCTWORK, PIPING, AND SYSTEMS

DUCTS, AND EQUIPMENT DEDICATED TO SERVE THE

ZONE ARE ALLOWED. COORDINATE WITH ELECTRICAL

CONTRACTOR AND COMPLY WITH ALL CODE CLEARANCE

SHALL NOT RUN THROUGH THIS ZONE. EXCEPTION: PIPES,

ES	

#### SELECTIVE DEMOLTION NOTES

- CONTRACTOR SHALL VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS.
- PRIOR TO COMMENCING WORK OF THIS SECTION, EXAMINE SITE AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. DETERMINE EXACT LOCATIONS OF EXISTING EQUIPMENT, PIPING AND CONTROLS. REPORT TO OWNER ANY CONDITIONS THAT MIGHT ADVERSELY AFFECT WORK. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.
- ABANDONING OF FIXTURES, CARRIERS, PIPING OR EQUIPMENT IN PLACE SHALL NOT BE ALLOWED. COMPLETE REMOVAL REQUIRED UNLESS NOTED OTHERWISE.
- PIPING TO BE REMOVED: REMOVE PORTION OF PIPING INDICATED TO BE REMOVED, PROVIDE FULL PORT BALL VALVE AND CAP REMAINING PIPING WITH SAME OR COMPATIBLE PIPING MATERIAL.
- FIXTURES TO BE REMOVED: REMOVE FIXTURES AND ALL ASSOCIATED ACCESSORIES INCLUDING BUT NOT LIMITED TOO, CARRIERS, SUPPORTS, PIPING, FLANGES, OTHER MOUNTING ACCESSORIES AND ETC.
- EQUIPMENT TO BE REMOVED: DISCONNECT AND REMOVE EQUIPMENT. ALL UNUSED SERVICES CONNECTED TO DEMOLISHED EQUIPMENT SHALL BE REMOVED BACK TO UNUSED PORTION AND SERVICES CAPPED. EQUIPMENT TO BE REMOVED AND SALVAGED: DISCONNECT AND CAP SERVICES,
- REMOVE EQUIPMENT AND DELIVER TO OWNER. ALL UNUSED PORTIONS SHALL BE DEMOLISHED AS INDICATED WITHIN THESE DOCUMENTS.
- . COMPLY WITH ALL STATE AND LOCAL CODES AS TO REMOVAL AND DISPOSAL OF EQUIPMENT REMOVED FROM THE SITE.
- COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION.
- 10. REMOVE PREVIOUSLY ABANDONED WORK IN THE WAY OF EXISTING CONSTRUCTION, OR AS NOTED.
- 11. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- 12. COMPLY WITH ANSI A10.6 (SAFETY REQUIREMENTS FOR DEMOLITION OPERATIONS) AND NFPA 241 (STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS)
- 13. PERMITS: GIVE ALL REQUIRED NOTICES, FILE ALL REQUIRED PLANS AND SPECIFICATIONS RELATING TO THE WORK OF THIS SECTION WITH THE PROPER AUTHORITIES AND PAY FOR ANY REQUIRED PERMITS.
- 14. ALL EQUIPMENT AND SYSTEMS TO BE REMOVED OR DEMOLISHED UNDER THIS SECTION AND NOT DESIRED BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ALL SUCH EQUIPMENT FROM THE SITE PROMPTLY AFTER DETACHMENT FROM BUILDING STRUCTURE.
- 15. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED. 16. IT IS UNKNOWN WHETHER HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE
- WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER.
- 17. EXISTING PIPING SHOWN ON DRAWINGS DOES NOT INDICATE FULL EXTENT OF PIPING DEMOLITION. FIELD VERIFICATIONS REQUIRED. 18. HOT WATER RECIRCULATION SYSTEM SHALL BE BALANCE TESTED BEFORE
- DEMOLITION WORK BEGINS, CONTRACTOR IS RESPONSIBLE FOR SETTING A BASELINE TO ADHERE TO AFTER NEW CONSTRUCTION. FAILURE TO ESTABLISH A BASELINE WILL REQUIRE THE NEW SYSTEM TO BE BALANCED AND ACHIEVE A STANDARD ACCEPTABLE TO THE OWNER AND ENGINEER.
- 19. FIXTURES EXISTING TO REMAIN: FIXTURES SHALL BE PROTECTED DURING DEMOLITION. FIXTURES DAMAGED DURING DEMOLITION SHALL BE REPAIRED TO LIKE NEW WORKING CONDITION OR REPLACED WITH SAME FIXTURE. WHERE SAME FIXTURE IS NO LONGER AVAILABLE AN APPROVED EQUAL BY OWNER AND ENGINEER SHALL BE USED. ALL WORK SHALL BE PERFORMED AT NO COST TO OWNER.

# ABBREVIATIONS

B.F.D.	BACK FLOW PREVENTER
CI CFH CONTR	CAST IRON CUBIC FEET PER HOUR CONTRACTOR
DN DWG	DOWN DRAWING
EA. E.T.R. EX.	EACH EXISTING TO REMAIN EXISTING
F.B.O.C. FT	FURNISHED BY OTHER CONTRACTOR FEET
GAL GC GPM	GALLONS GENERAL CONTRACTOR GALLONS PER MINUTE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
INV. IN	INVERT INCHES
NIC NTS	NOT IN CONTRACT NOT TO SCALE
PC PSI	PLUMBING CONTRACTOR POUNDS PER SQUARE INCH
SF SS	SQUARE FEET STAINLESS STEEL
TYP	TYPICAL
WS	WASTE STACK
VB V.T.R.	VACUUM BREAKER VENT THROUGH ROOF

# PLUMBING EQUIPMENT COORDINATION

PLUMBING CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, FIRE PROTECTION. MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND QUANTITIES OF EQUIPMENT RELEASED TO EACH TRADE.

#### GENERAL NOTES

. PIPE ROUTING IS SHOWN DIAGRAMMATICALLY ON PLUMBING DRAWINGS AND SHALL BE ADJUSTED FOR ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL CLEARANCES AND LIMITATIONS AND FOR EQUIPMENT SELECTION.

FURNISH AND INSTALL ALL ELEMENTS REQUIRED TO COMPLETE INTENDED PIPING SYSTEMS WHETHER OR NOT THESE ELEMENTS ARE SPECIFICALLY SHOWN ON DRAWINGS OR CALLED FOR IN SPECIFICATIONS.

3. CONSULT ALL DRAWINGS, NOTES, ARCHITECTURAL DETAILS AND ALL CONDITIONS THAT MAY AFFECT THE WORK AND CARE FOR SAME, WHILE EXECUTING THE WORK UNDER THIS SECTION. COOPERATE AND COORDINATE WITH THE ARCHITECT, ALL OTHER TRADES, BLDG. MANAGEMENT, AND THE OWNER.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.

5. IN EVENT OF CONFLICT BETWEEN OR AMONG SPECIFIED REQUIREMENTS AND PERTINENT CODES OR REGULATIONS, MORE STRINGENT REQUIREMENTS SHALL

TAKE ALL MEASURES REQUIRED TO PROTECT OWNER'S PROPERTY AND EQUIPMENT DURING COURSE OF WORK. SHOULD DAMAGE TO OWNER'S PROPERTY OR EQUIPMENT OCCUR. REPAIR DAMAGE PROMPTLY AT NO COST TO OWNER. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT CONFORMANCE WITH EQUIPMENT

AND MATERIALS MANUFACTURERS' WRITTEN RECOMMENDATIONS. 8. LOCATIONS, PLUMBING MOUNTING HEIGHTS, AND DETAILS SHOWN ON ARCHITECTURAL

DRAWINGS TAKE PRECEDENCE OVER SAME SHOWN ON PLUMBING DRAWINGS AND DESCRIBED IN SECTIONS OF THE SPECIFICATIONS. WHEN ARCHITECTURAL DRAWINGS DO NOT SHOW PRECISE LOCATIONS OF DEVICES OR EQUIPMENT, LOCATE AS DIRECTED BY THE ARCHITECT.

9. LOCATE PIPES TO FALL WITHIN PARTITIONS, WALLS, OR ROOF CAVITIES AND TO PRECLUDE FURRING. OTHER THAN THAT SHOWN ON ARCHITECTURAL DRAWINGS.

10. ALL PLUMBING EQUIPMENT, VALVES, ETC. SHALL BE INSTALLED WITH CLEARANCE FOR SERVICING AS RECOMMENDED BY THE MANUFACTURER.

1. REFER TO SCHEDULES AND SPECIFICATIONS FOR PLUMBING FIXTURES AND EQUIPMENT REQUIRING LOW VOLTAGE. COORDINATE ALL LOW VOLTAGE REQUIREMENTS, INCLUDING ALARMS, WITH CONTROLS CONTRACTOR.

12. REFER TO SCHEDULES AND SPECIFICATIONS FOR PLUMBING FIXTURES AND EQUIPMENT REQUIRING ELECTRICAL POWER. COORDINATE ALL POWER

REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

![](_page_48_Figure_67.jpeg)

### 1.1 SCOPE

A. THIS SECTION INCLUDES THE SOIL, WASTE, VENT, AND DOMESTIC WATER SYSTEMS FROM THEIR SOURCE OF SUPPLY OR POINT OF DISPOSAL TO AND INCLUDING THEIR CONNECTION TO EQUIPMENT AND FIXTURES.

#### B. THIS SECTION DESCRIBES THE GENERAL PROVISIONS FOR THE PLUMBING WORK INCLUDED IN DIVISION 22. THIS SECTION APPLIES TO ALL SECTIONS OF DIVISION 22.

C. THE DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS, GENERAL REQUIREMENTS AND ALL OTHER SPECIFICATION SECTIONS APPLY TO THE WORK SPECIFIED IN THIS SECTION. IN THE EVENT OF CONFLICT BETWEEN SPECIFIC REQUIREMENTS OF THE VARIOUS DOCUMENTS, THE MORE RESTRICTIVE, THE MORE EXTENSIVE (1.E.: MORE EXPENSIVE) REQUIREMENT SHALL GOVERN.

#### 1.2 RESPONSIBILITY

SUBCONTRACTOR.

A. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDED IN THE PLUMBING DIVISION. THE DELEGATION OF WORK TO SUBCONTRACTORS SHALL NOT RELIEVE HIM OF THIS RESPONSIBILITY. SUBCONTRACTORS WHO PERFORM WORK UNDER THESE SECTIONS SHALL BE RESPONSIBLE TO THE GENERAL CONTRACTOR. THE TERM "CONTRACTOR" IS USED THROUGHOUT THIS DIVISION AND SHALL MEAN THE GENERAL CONTRACTOR, ALTHOUGH THE ACTUAL PERFORMANCE OF THE WORK MAY BE BY A

B. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DIVISIONS OF THE PROJECT SPECIFICATIONS. WHERE CONFLICTS EXIST BETWEEN DIVISIONS AND/OR SECTIONS OF THE SPECIFICATIONS THE MOST STRINGENT REQUIREMENT AS DETERMINED BY THE ENGINEER SHALL APPLY.

1.3 STANDARD SPECIFICATIONS

A. REFERENCES TO CATALOGS, STANDARDS, CODES, SPECIFICATIONS, AND REGULATIONS APPLY TO THE LATEST EDITION IN EFFECT AT THE DATE OF THE INVITATION TO BID. 1.4 CODES, REGULATIONS, AND PERMITS:

A. GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL FEES AND OTHER COSTS. FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS, AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL

DEPARTMENTS HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION AND DELIVER SAME TO THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.

B. ALL PLUMBING WORK SHALL COMPLY WITH THE 2018 INTERNATIONAL PLUMBING CODE, LOCAL, CITY AND STATE PLUMBING CODES, AND THE REGULATIONS OF THE GEORGIA DEPARTMENT OF PUBLIC HEALTH (DPH). OBTAIN ALL APPROVALS BEFORE STARTING PLUMBING WORK. REQUEST ALL INSPECTIONS DURING THE COURSE OF WORK.

C. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE LATEST RULES, REGULATIONS, AND RECOMMENDATIONS OF THE FOLLOWING BODIES:

- 1. ICC INTERNATIONAL BUILDING CODE (2018) WITH GEORGIA AMENDMENTS
- 2. ICC INTERNATIONAL ENERGY CONSERVATION CODE (2015) WITH GEORGIA AMENDMENTS
- 3. ICC INTERNATIONAL PLUMBING CODE (2018) WITH GEORGIA AMENDMENTS
- 4. NATIONAL ELECTRIC CODE (2017) 5. LOCAL UTILITY COMPANIES
- ASHRAE/IESNA 90.1-2013 ASHRAE STANDARDS AND HANDBOOKS
- UNDERWRITERS LABORATORIES OWNER'S INSURANCE UNDERWRITER STANDARDS
- **10. ENVIRONMENTAL PROTECTION AGENCY** 1.5 MATERIALS LIST AND SHOP DRAWINGS

A. SUBMIT FOR APPROVAL, DIMENSIONED DRAWINGS OR CUTS SHOWING CONSTRUCTION SIZE, ARRANGEMENT, OPERATING CLEARANCES, PERFORMANCE CHARACTERISTICS AND CAPACITY OF MATERIAL OR EQUIPMENT. EACH ITEM OF EQUIPMENT PROPOSED SHALL BE A STANDARD CATALOG PRODUCT OF THE APPROVED MANUFACTURER. SUBMITTALS SHALL BE RECEIVED EARLY IN THE CONSTRUCTION PERIOD TO ALLOW THE ENGINEER AMPLE TIME FOR REVIEW AND CHECKING FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE ENGINEER WILL BE EXPECTED TO PROCESS A MAXIMUM OF TEN (10) SUBMITTALS IN A FIVE (5) DAY WORKING PERIOD. SUBMITTALS SHALL BE RETURNED WITHIN TEN (10) WORKING DAYS. THE CONTRACTOR SHALL CAREFULLY SCHEDULE THE SUBMISSION TIME OF ALL SUBMITTALS TO ENSURE THAT APPROVALS WILL BE RECEIVED TO MEET THE CRITICAL PATH OF

B. IF THE CONTRACTOR'S SUBMITTALS, UPON REVIEW BY THE ENGINEER, DO NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE REQUIRED TO RESUBMIT WITH MODIFICATION, WITH IN TEN (10) WORKING DAYS OF RECEIPT OF THE ENGINEER'S NOTIFICATION AND COMMENTS TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXTRA EXPENSES FOR SUBSEQUENT REVIEW OF REJECTED OR REVISED SUBMITTALS NECESSITATED BY THE CONTRACTOR'S FAILURE TO PROVIDE A COMPLETE AND ACCURATE SUBMITTAL MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SUCH EXTRA FEES SHALL BE DEDUCTED BY THE OWNER FROM PAYMENTS TO THE CONTRACTOR.

C. IF MATERIAL OR EQUIPMENT IS INSTALLED PRIOR TO RECEIPT BY THE CONTRACTOR OF PERTINENT SHOP DRAWINGS MARKED "APPROVED" OR "APPROVED AS NOTED", THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL REPLACEMENT AT NO EXTRA CHARGE TO THE OWNER.

1.6 GUARANTEE

THE CONSTRUCTION PROJECT.

A. THE CONTRACTOR GUARANTEES, BY HIS ACCEPTANCE OF THE CONTRACT, THAT ALL WORK INSTALLED, BY HIM OR HIS SUBCONTRACTORS, WILL BE FREE FROM DEFECTS, IN WORKMANSHIP AND MATERIALS, FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF CERTIFICATION OF COMPLETION AND ACCEPTANCE OF WORK. ANY DEFECTS IN WORKMANSHIP, MATERIALS OR PERFORMANCE WHICH APPEAR WITHIN THE GUARANTEE PERIOD SHALL BE CORRECTED BY THE CONTRACTOR, WITHOUT COST TO THE OWNER, WITHIN A REASONABLE TIME TO BE SPECIFIED IN THE NOTICE FROM THE ARCHITECT. IN DEFAULT THEREOF, THE OWNER MAY HAVE SUCH

WORK DONE AND CHARGE THE COST OF SAME TO THE CONTRACTOR. 1.7 DRAWINGS

A. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. ANY OFFSETS, RISES, OR TRANSITIONS NOT SHOWN ON THE DRAWINGS AND REQUIRED TO PROVIDE A COMPLETE SYSTEM SHALL BE PROVIDED AT NO ADDITIONAL CONTRACT COST. DO NOT SCALE THE DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS AND DETAILS FOR EXACT LOCATION OF EQUIPMENT AND DEVICES.

1.8 RECORD DRAWINGS

A. CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ALL DEVIATIONS IN WORK, AS ACTUALLY INSTALLED, FROM WORK INDICATED.

1.9 ELECTRICAL WORK

A. UNDER DIVISION 26 ELECTRICAL, PROVIDE: 1. POWER WIRING

PART 2 - PRODUCTS

2.1 MATERIALS

A. ALL MATERIALS SHALL BE NEW, THE BEST OF THEIR RESPECTIVE KINDS. SUITABLE FOR THE

UPON RECEIPT OF WRITTEN APPROVAL FROM THE ENGINEER, THE CONTRACTOR MAY PROCEED WITH SUBSTITUTION PROVIDING THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR, AND MAKES, AT HIS OWN EXPENSE, ANY CHANCES OR ADJUSTMENTS IN CONSTRUCTION OR CONNECTION WITH OTHER WORK THAT MAY BE REQUIRED BY THE SUBSTITUTION OF SUCH MATERIALS, EQUIPMENT OR METHODS. IN THE EVENT OF ANY ADVERSE DECISIONS BY THE ENGINEER NO CLAIM OF ANY SORT SHALL BE MADE OR ALLOWED AGAINST THE

2.2 PIPE, VALVES AND FITTINGS

OWNER.

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A. PROVIDE MATERIALS AS HEREIN BEFORE SPECIFIED IN SECTION 23100, BASIC MATERIALS AND METHODS. ALL FLOOR. WALL, AND CEILING PENETRATIONS FOR PIPING SHALL BE SEALED WITH THE APPROPRIATE SEALANT.

2.3 PLUMBING FIXTURES

A. PROVIDE ALL PLUMBING FIXTURES INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. ALL EXPOSED METAL PARTS OF ALL FIXTURES, INCLUDING ALL TRIM AND FITTINGS, SHALL BE BRASS, CHROMIUM PLATED. EACH HOT AND COLD WATER CONNECTION TO EACH FIXTURE SHALL BE PROVIDED WITH A STOP VALVE AND ALL NIPPLES SHALL BE CHROME PLATED RED BRASS. PROVIDE BACKFLOW DEVICES ON ALL FAUCETS AND FITTINGS REQUIRING SAME. DEVICES MAY BE INLINE TYPE WHEN NOT PROVIDED INTEGRAL WITH THE FAUCET. ALL FAUCET HANDLES, WHERE POSSIBLE, SHALL HAVE COLOR CODED "INDEXES" IDENTIFYING THE SERVICE

B. THE CONTRACTOR SHALL PROVIDE METAL SUPPORTS NECESSARY TO ADEQUATELY AND SUBSTANTIALLY HANC AND SET ALL FIXTURES SUBJECT TO THE APPROVAL OF THE ARCHITECT, NO WOOD GROUNDS, WOOD PLUGS, OR EXPANSION BOLTS SHALL BE PERMITTED FOR FIXTURE SUPPORT. PROVIDE CARRIERS WHERE SPECIFIED AND AS REQUIRED TO HAN C FIXTURES.

C. UNLESS OTHERWISE SPECIFIED, PLUMBING FIXTURES SHALL BE JUST, SLOAN, FIAT, AMERICAN STANDARD, CRANE OR KOHLER, EQUAL TO SLOAN OR OTHER MANUFACTURER OF THE TYPE LISTED ON DRAWING P000. 2.4 INSULATION

A. WATER SUPPLIES FOR HANDICAPPED LAVATORIES AND SINKS SHALL BE INSULATED. WASTE LINE FOR HANDICAPPED LAVATORIES AND SINKS SHALL BE OFFSET AND INSULATED.

B. INSULATE ALL EXPOSED PIPING UNDER LAVATORIES AND SINKS WITH A WHITE, FITTED/MOLDED ANTIMICROBIAL UNDERSINK PIPE COVER EQUAL TO TRUEBRO LAV GUARD 2. COVER SHALL HAVE INTERNAL, E-Z TEAR-TO-FIT TRIM FEATURE FOR SQUARE. CLEAN TRIMMING (INTERNAL RIBS) AND BUILT-IN, CONCEALED E-Z GRIP FASTENERS (NO CABLE-TIE FASTENERS ALLOWED).

C. PROVIDE 1 INCH HEAVY DENSITY FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET. THE K FACTOR SHALL NOT BE MORE THAN 0.23 AT SEVENTY- FIVE (75) DEGREES FAHRENHEIT MEAN TEMPERATURE. INSULATION SHALL BE EQUAL TO JOHNS MANVILLE MICROLOK MEETING ASTM C 547 WITH FSK JACKET.

PART 3 - EXECUTION 3.1 WORKMANSHIP

A. WORKMANSHIP SHALL BE SATISFACTORY TO THE ARCHITECT AND HIS DECISION AS TO ACCEPTABLE QUALITY IS FINAL. WORKMANSHIP PROVEN TO BE OF POOR QUALITY OR UNSATISFACTORY IN THE COMMISSIONING PHASE OF THE PROJECT AS DEEMED BY THE ARCHITECT SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE ARCHITECT.

3.2 INSTALLATION OF PIPING A. INTERIOR DRAINAGE SYSTEMS:

- 1. SOIL, WASTE, VENT AND DRAIN PIPING FOR SANITARY AND STORM DRAINAGE PIPING SHALL BE ADEQUATELY SUPPORTED AS SPECIFIED. 2. CHANCES IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY— FIVE (45) DEGREE WYES, 1/2 WYES, OR LONG SWEEP 1/4, 1/6, 1/8, OR 1/16 BENDS. MAKE NO CHANGE IN DIRECTION OF FLOW GREATER THAN
- NINETY (90) DEGREES. WHERE DIFFERENT SIZES OF DRAINAGE PIPES OR PIPES AND FITTINGS ARE TO BE CONNECTED, USE STANDARD
- INCREASERS AND REDUCERS OF PROPER SIZE. REDUCTION OF SIZE IN HORIZONTAL DRAINAGE PIPING IN DIRECTION OF FLOW IS PROHIBITED. 3. DRILLING AND TAPPING OF DRAINS, SOIL, WASTE, OR VENT PIPING, AND
- USE OF SADDLE HUBS AND BANDS ARE PROHIBITED. 4. CONNECT PIPING TO FIXTURES OR EQUIPMENT BY COUPLINGS OR UNIONS SO THAT DEVICES MAY BE REPLACED WITH NO DISTURBANCE TO PIPING.
- B. WATER PIPING SYSTEMS:
- 1. WATER PIPING SHALL BE COMPLETE FROM SERVICE CONNECTION TO ALL FIXTURES, EQUIPMENT, OUTLETS, ETC. SIZES OF PIPES SHALL BE SHOWN
- OR AS SPECIFIED. 2. WHERE NON FERROUS METAL PIPING AND ZINC COATED METAL PIPING
- ARE JOINED, DIELECTRIC (INSULATING) COUPLINGS, FITTINGS OR UNIONS SHALL BE PROVIDED. 3. WHERE PIPE SIZES SHOWN OR SPECIFIED DIFFER FROM THE CONNECTION SIZES OF FIXTURES, OUTLETS, ETC., REDUCING FITTINGS SHALL BE INSTALLED.

C. INSULATION:

- 1. INSULATE ALL PIPES IN A NEAT AND WORKMANLIKE MANNER. SEAL ALL LONGITUDINAL LAPS OF JACKETS AND STAPLE EVERY SIX (6) INCHES. WHERE THE PIPING OPERATES BELOW AMBIENT TEMPERATURE, THE STAPLES SHALL BE COATED WITH VAPOR BARRIER ADHESIVE. ALL BUTT JOINTS SHALL BE WRAPPED WITH A THREE (3) INCH MINIMUM WIDE
- STRIP OF JACKETING MATERIAL SECURELY SEALED IN PLACE. 2. INSULATE VALVES AND FITTINGS WITH PRE— CUT BLANKET TYPE FIBERGLASS INSULATION AND PVC COVERS AS SPECIFIED. INSULATION SHALL BE OF THE SAME THICKNESS AS THAT ON ADJOINING PIPE. THE ENDS OF THE INSULATION SHALL BE TUCKED SNUGLY INTO THE THROAT OF THE FITTING AND THE EDGES ADJACENT TO THE PIPE COVERING TUFTED AND TUCKED, FULLY INSULATING THE PIPE FITTING. THE ONE (1) PIECE PVC FITTING COVER SHALL THEN BE SECURED BY STAPLING. TACK
- FASTENING, BANDING OR TAPING THE ENDS TO THE ADJACENT PIPE COVERING, COLD WATER SYSTEMS PIPING SHALL BE INSULATED AS ABOVE AND HAVE ALL SEAMS OF THE COVER SEALED WITH ZESTON VAPOR BARRIER ADHESIVE MASTIC. THE CIRCUMFERENTIAL EDGES OF COVER SHALL BE WRAPPED WITH ZESTON VAPOR BARRIER PRESSURE SENSITIVE COLOR MATCHING TAPE. THE TAPE SHALL EXTEND OVER THE
- ADJACENT PIPE INSULATION AND OVERLAP ITSELF AT LEAST TWO (2) INCHES ON THE DOWNWARD SIDE.

3.3 EQUIPMENT PERFORMANCE A. ALL EQUIPMENT, DEVICES, CONTROLS, AND HARDWARE SHALL BE PROVEN TO OPERATE SUCCESSFULLY THROUGHOUT THE GUARANTEE PERIOD. SYSTEM COMPONENTS OR EQUIPMENT ITEMS THAT FAIL TO CONSISTENTLY DELIVER THE

ARCHITECT. THE COST OF REQUIRED EQUIPMENT REPLACEMENTS SHALL BE BORNE BY THE CONTRACTOR. B. ALL EQUIPMENT SHALL BE TESTED AFTER INSTALLATION AND BE PROVEN TO DELIVER THE MANUFACTURERS QUOTED DESIGN CAPACITY. WHEN CAPACITY IS IN QUESTION AS DEEMED BY THE ARCHITECT, THE CONTRACTOR SHALL PERFORM A DETAILED AND COMPREHENSIVE FIELD PERFORMANCE TEST TO CERTIFY THE EQUIPMENT CAPACITY. SYSTEM EFFECT OR INSTALLED PERFORMANCE FACTORS MAY NOT BE APPLIED TO PERFORMANCE RATINGS UNLESS THEY WERE PREVIOUSLY INCLUDED WHEN THE EQUIPMENT WAS SUBMITTED FOR APPROVAL. EQUIPMENT

C. WORKMANSHIP PROVEN TO BE OF POOR QUALITY OR UNSATISFACTORY IN THE COMMISSIONING PHASE OF THE PROJECT AS DEEMED BY THE ARCHITECT SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE ARCHITECT. 3.4 EQUIPMENT CONNECTIONS

REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

A. ALL EQUIPMENT SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. AUXILIARY PIPING. PIPING SPECIALTIES, WATER SEALS, VALVES, AND ELECTRIC CONNECTIONS RECOMMENDED BY THE MANUFACTURER, REQUIRED BY CODE OR REQUIRED FOR PROPER OPERATION SHALL BE PROVIDED.

3.5 CUTTING AND PATCHING

A. CUTTING AND PATCHING ASSOCIATED WITH THE WORK IN THE EXISTING STRUCTURE SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER. EXISTING SURFACES, WHICH ARE DAMAGED BY THE CONTRACTOR, SHALL BE REPAIRED OR PROVIDED WITH NEW MATERIALS.

B. ALL PATCHING SHALL BE DONE WITH MATERIALS AND METHODS SIMILAR TO EXISTING ADJACENT WORK, SUBJECT TO APPROVAL OF THE ARCHITECT. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED. HOLES CUT THROUGH CONCRETE AND/OR MASONRY TO ACCOMMODATE NEW WORK SHALL BE CUT BY RECIPROCATING OR ROTARY, NON-PERCUSSIVE METHODS.

C. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL DIMENSIONED DRAWINGS SHOWING ALL PENETRATIONS THROUGH STRUCTURAL SLABS OR WALLS REQUIRED FOR MECHANICAL AND ELECTRICAL WORK. DRAWINGS SHALL CLEARLY SHOW OPENING SIZE, PLAN LOCATION, AND/OR ELEVATION AS APPLICABLE. ALL OPENINGS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO STARTING WORK.

D. PATCHING OF AREAS DISTURBED BY INSTALLATION OF NEW WORK SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, TEXTURE, AND COLOR. 3.6 INTERRUPTION OF EXISTING UTILITIES

A. NOTIFY THE OWNER IN WRITING AT LEAST SEVEN (7) DAYS IN ADVANCE OF ANY REQUIRED SHUTDOWN OF WATER, SEWAGE, GAS, ELECTRICAL SERVICE OR OTHER UTILITY. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE PERFORMED BETWEEN THE HOURS OF SIX (6) P.M. AND SIX (6) A.M. INCLUDING CLEANUP OR AS DIRECTED OTHERWISE AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL COST.

B. INTERRUPTIONS DURING PERIODS OF NORMAL BUILDING OCCUPANCY SHALL BE KEPT TO A MINIMUM, INTERRUPTIONS SHALL ONLY OCCUR AFTER A SCHEDULE OF PROPOSED OUTAGE TIMES IS SUBMITTED TO AND APPROVED BY THE ARCHITECT.

C. AT THE END OF EACH INTERRUPTION. ALL SERVICES SHALL BE RESTORED SO THAT NORMAL USE OF THE BUILDING CAN CONTINUE. 3.7 PROTECTION OF EXISTING WORK

A. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND MECHANICAL AND ELECTRICAL SERVICES, REPAIR OR REPLACE, TO THE SATISFACTION OF THE (ARCHITECT/ENGINEER), ANY EXISTING WORK DAMAGED IN THE PERFORMANCE OF THE NEW WORK. AND (CITY/COUNTY) FIRE PREVENTION CODE REQUIREMENTS, AND NFPA STANDARD 241 INCLUDING PROVISION OF APPROPRIATE

3.8 HANDLING AND STORAGE OF MATERIAL

PORTABLE FIRE EXTINGUISHERS.

A. IF ANY EQUIPMENT AND/OR MATERIALS ARE FOUND TO BE IN POOR CONDITION AT THE TIME OF INSTALLATION THE ENGINEER MAY. AT HIS DISCRETION. ORDER THE CONTRACTOR TO FURNISH AND INSTALL NEW EQUIPMENT AND/OR MATERIAL AT NO COST TO THE OWNER.

DESIGN CONDITIONS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE

THAT FAILS TO DELIVER MANUFACTURERS QUOTED DESIGN CAPACITY SHALL BE

3.9 CONNECTIONS AND ALTERATIONS TO EXISTING WORK

A. WHEN EXISTING MECHANICAL AND ELECTRICAL WORK IS REMOVED, ALL PIPES, VALVES, AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICK NESS OF FINISHED MATERIAL.

B. WHEN THE WORK SPECIFIED HEREINAFTER CONNECTS TO EXISTING EQUIPMENT OR PIPING THE CONTRACTOR SHALL PERFORM ALL NECESSARY ALTERATIONS, CUTTINGS, OR FITTING OF EXISTING WORK AS MAY BE NECESSARY OR REQUIRED TO MAKE SATISFACTORY CONNECTIONS BETWEEN THE NEW AND EXISTING WORK AND TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMAN LIKE CONDITION, TO THE ENTIRE SATISFACTION OF THE ARCHITECT.

C. WHEN THE WORK SPECIFIED HEREINAFTER OR UNDER OTHER DIVISIONS OF THE CONTRACT NECESSITATES RELOCATION OF EXISTING EQUIPMENT, PIPING, OR DUCTWORK, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANCES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION. TO THE SATISFACTION OF THE ARCHITECT. ALL WORK RESULTING IN AN EXTRA COST TO THE CONTRACT SHALL BE APPROVED BY THE OWNER AND ARCHITECT BEFORE PROCEEDING.

D. ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF THE PLUMBING WORK SHALL BE DONE UNDER THIS DIVISION. ANY DAMAGE DONE TO THE WORK ALREADY IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. PATCHING SHALL BE UNIFORM IN APPEARANCE AND SHALL MATCH THE SURROUNDING SURFACE.

SECTION 220530 — BASIC MATERIALS AND METHODS

PART 1 - GENERAL 1.1 SCOPE:

A. THIS SECTION INCLUDES REQUIREMENTS FOR ITEMS OF PLUMBING EQUIPMENT, MATERIALS AND PROCEDURES WHICH ARE COMMON TO MORE THAN ONE SECTION OF DIVISION 22 AND WHICH ARE GENERAL IN NATURE AND USE. THIS SECTION APPLIES TO ALL SECTIONS OF DIVISION 22. B. THE DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS, GENERAL REQUIREMENTS AND ALL

OTHER SPECIFICATION SECTIONS APPLY TO THE WORK SPECIFIED IN THIS SECTION. IN THE EVENT OF CONFLICT BETWEEN SPECIFIC REQUIREMENTS OF THE VARIOUS DOCUMENTS, THE MORE RESTRICTIVE, THE MORE EXTENSIVE (1.E.: MORE EXPENSIVE) REQUIREMENT SHALL GOVERN.

1.2 SHOP DRAWINGS:

A. SUBMIT SHOP DRAWINGS FOR ALL ITEMS OF MATERIALS SPECIFIED IN THIS SECTION IN ACCORDANCE WITH THE GENERAL REQUIREMENTS. 1.3 TESTS AND ADJUSTMENTS:

A. THE CONTRACTOR SHALL FURNISH LABOR, INSTRUMENTS, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM TESTS PRESCRIBED IN THE SECTIONS DESCRIBING THE VARIOUS SYSTEMS. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER AND/OR THE ARCHITECT. FORTY EIGHT (48) HOURS PRIOR NOTICE SHALL BE GIVEN TO THE OWNER AND ARCHITECT FOR ALL TESTS. A WRITTEN TEST REPORT SHALL BE SUBMITTED FOLLOWING ALL TESTS AND BEFORE SYSTEMS ARE INSULATED.

B. REPLACE OR REPAIR DEFECTS FOUND DURING INSPECTION OR TESTS WITH NEW MATERIALS. CAULKING OF WELDED JOINTS, SCREWED JOINTS, CRACKS, OR HOLES IS NOT ACCEPTABLE. CORRECT LEAKS IN SCREWED FITTINGS BY REMAKING JOINTS. CUT OUT AND REWELD. REPEAT TESTS AFTER DEFECTS HAVE BEEN ELIMINATED.

PART 2 - PRODUCTS

2.1 PIPE, FITTINGS AND JOINTS A. PIPING MATERIAL

- 1. SANITARY AND VENT PIPING: CAST IRON SOIL PIPE, SERVICE WEIGHT NO-HUB, ASTM A-888. 2. DOMESTIC COLD AND HOT WATER: SEAMLESS COPPER WATER TUBE, ASTM B88, TYPE L, HARD
- B. PIPING FITTINGS:
- 1. SANITARY AND VENT PIPING: CAST IRON SOIL PIPE FITTINGS, NO HU B, ASTM A-888.
- 2. DOMESTIC COLD AND HOT WATER: COPPER PRESS FITTINGS. COPPER PRESS FITTINGS SHALL CONFORM TO THE MATERIAL AND SIZING REQUIREMENTS OF ASME B16.18 OR ASME B16.22. O-RINGS FOR COPPER PRESS FITTINGS SHALL BE EPDM.
- C. PIPING JOINTS
- 1. SANITARY AND VENT PIPING: NO—HUB NEOPRENE GASKET AND STAINLESS STEEL CORRUGATED SHIELD, TYLER NO-HUB COUPLING. 2. DOMESTIC COLD AND HOT WATER: SOLDERED: MECHANICAL PRESS JOINING METHOD. JOINTS SHALL BE PRESSED USING THE TOOL APPROVED BY THE MANUFACTURER.

2.2 DIELECTRIC FITTINGS

3.3 TESTS

A. GENERAL: PROVIDE ASSEMBLY OR FITTING WITH INSULATING MATERIAL ISOLATING JOINING OF DISSIMILAR METALS, TO PREVENT GALVANIC ACTION AND STOP CORROSION.

PART 3 - EXECUTION

3.1 CLEANING, FLUSHING AND INSPECTING

A. GENERAL: CLEAN EXTERIOR SURFACES OF PIPING SYSTEMS OF SUPERFLUOUS MATERIALS AND PREPARE FOR APPLICATION OF SPECIFIED COATINGS (IF ANY.) CLEAN INTERIOR OF PIPE BY MECHANICAL MEANS TO REMOVE WELDING SLAB, METAL FILINGS, DIRT, AND DEBRIS, FLUSH OUT PIPING SYSTEMS TO THE SATISFACTION OF THE OWNER BEFORE PROCEEDING WITH REQUIRED TESTS. INSPECT EACH RUN OF EACH SYSTEM FOR COMPLETION OF JOINTS, SUPPORTS, AND ACCESSORY ITEMS.

B. THE CONTRACTOR SHALL CLEAN AND FLUSH ALL INSTALLED PIPING SYSTEMS WITH A CLEAN WATER SOLUTION WITH ADDITIVES FORMULATED TO ASSIST IN THE REMOVAL OF WELDING SLAG, METAL FILINGS, OIL, AND GREASE. FLUSHING OPERATIONS SHALL MAINTAIN A MINIMUM VELOCITY OF SIX FEET PER SECOND FOR A MINIMUM FOUR HOUR TIME FRAME. REPEAT FLUSHING OPERATIONS TO THE SATISFACTION OF THE OWNER AND UNTIL FLUSHING WATER IS COMPLETELY CLEAR. 3.2 WORKMANSHIP

A. ARRANGE PIPES TO PERMIT EXPANSION AND CONTRACTIONS WITHOUT MISALIGNMENT OR DAMAGE.

B. DURING CONSTRUCTION ALL OPENINGS IN PIPING AND EQUIPMENT SHALL BE CLOSED WITH CAPS OR PLUGS TO KEEP OUT ALL FOREIGN MATTER AND TO PREVENT LEAKAGE.

A. THE FOLLOWING TESTS SHALL BE CONDUCTED BY THE CONTRACTOR AND ALL PIPING SHALL BE PROVEN TIGHT IN THE PRESENCE OF THE ARCHITECT OR HIS REPRESENTATIVE. THESE TESTS SHALL BE CONDUCTED BEFORE ANY INSULATION IS INSTALLED AND ANY INSULATION INSTALLED PRIOR TO TESTS SHALL BE REMOVED. PROVIDE ALL EQUIPMENT AND LABOR REQUIRED. TESTS SHALL BE AT LEAST FOUR (4) HOURS IN DURATION, AFTER ALL PIPING HAS BEEN PROVEN TIGHT. PIPING MAY BE TESTED IN SECTIONS AS APPROVED BY THE ARCHITECT. TESTS SHALL BE AS SPECIFIED HEREIN, AND A WRITTEN TEST REPORT SHALL BE SUBMITTED TO THE ARCHITECT WITHIN TWO (2) DAYS FOLLOWING EACH INDIVIDUAL TEST. ALL TEST REPORTS SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUALS.

B. DOMESTIC WATER SYSTEM PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH STATE OF GEORGIA DEPARTMENT OF PUBLIC HEALTH REQUIREMENTS AND SECTION 610 OF THE 2018 INTERNATIONAL PLUMBING CODE. A WRITTEN TEST REPORT SHALL BE SUBMITTED TO THE OWNER AND ARCHITECT WITHIN FIVE (5) DAYS FOLLOWINC THE STERILIZATION PROCESS AND BEFORE OCCUPANCY IS GRANTED. ALL WRITTEN REPORTS SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUALS.

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	GENERAL NOTES
EL	ECTRICAL GENERAL NOTES:
Α.	WORK SHALL CONFORM TO LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS EQUIPMENT SHALL BE LISTED/LABELED BY NATIONALLY RECOGNIZED TESTING AGENCY FOR THE INTENDED US
В.	COORDINATE FINAL LOCATIONS AND INSTALLATION REQUIREMENTS OF LIGHT FIXTURES, EQUIPMENT AND DEV WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE NECESSARY ACCESSORIES FOR COMPLETE AND PROPER OPERATION IN ACCORDANCE WITH MANUFACTUREF INSTRUCTIONS.
C.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND REPRESENT GENERAL SCOPE OF WORK. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY ITEM/DETAIL REQUIRED FOR COMPLETED INSTALLATION.
D.	NOTES ON FLOOR PLANS AND SITE PLAN APPLY ONLY TO THE WORK SCOPE WITHIN THE BOUNDARY OF THE S ON WHICH THEY APPEAR, UNLESS INDICATED OTHERWISE.
E.	WHERE EQUIPMENT GROUND BUS BARS ARE SPECIFIED OR INDICATED ON DRAWINGS, INSTALL IN LOCATION WHICH WILL ALLOW ADEQUATE ACCESS FOR FUTURE CONNECTIONS.
F.	WHERE WIRING DEVICES ARE INDICATED BACK-TO-BACK ON A COMMON WALL, INSTALL SUCH THAT A 12" HORIZONTAL SPACING IS PROVIDED BETWEEN THEM TO BEDUCE NOISE TRANSMISSION.
G.	PROVIDE FIRE PROOFING AT PENETRATIONS THROUGH RATED WALLS TO MEET OR EXCEED WALL RATING USI
Н.	RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER POSSIBLE. WHERE EXPOSED, RACEWAYS MUST B INSTALLED IN NEAT AND WORKMANLIKE MANNER AND PARALLEL/PERPENDICULAR TO WALLS IN ASSOCIATED SPACE.
I.	NUMBER OF BENDS SHALL NOT EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS IN ACCORDANCE WITH NEC ARTICLES 342, 344, 358. WHERE REQUIRED, PULL POINTS SHALL BE SIZED IN ACCORDANCE WITH NEC ARTICLE 314.
J.	CONDUIT ROUTING, AND WIRE COUNTS ARE NOT INDICATED ON FLOOR PLANS. CONTRACTOR TO PROVIDE RACEWAYS IN ACCORDANCE WITH SPECIFICATIONS AND WIRE COUNTS AS REQUIRED TO ACHIEVE CIRCUITING CONTROL OPERATION AS INDICATED.
K.	WHERE DEVICES ARE INDICATED IN CAST-IN-PLACE CONCRETE OR PRECAST, COORDINATE LOCATIONS OF DEVICES AND ROUTING OF RACEWAYS AND PENETRATIONS WITH ARCHITECT AND WALL SUPPLIER AND REMA TRADES TO ENSURE RACEWAYS ARE CONCEALED AND DEVICES ARE PROPERLY PLACED.
L.	PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT REQUIRING NEUTRAL CONNECTION. NEUTRAL CONDUCTOR SHALL BE CONSIDERED CURRENT-CARRYING FOR THE PURPOSES OF DERATING AND RACEWAY CALCULATIONS. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED.
M.	RACEWAYS SHALL BE LIMITED TO A MAXIMUM OF SIX CURRENT CARRYING CONDUCTORS (I.E. THREE 120V OR BRANCH CIRCUITS,) UNLESS OTHERWISE NOTED. WHERE THE NUMBER OF CURRENT CARRYING CONDUCTOF ALLOWED TO EXCEED SIX, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER NEC TA 310.15(B).
N.	COORDINATE EXACT DIMENSIONS FOR LOCATIONS OF FLOOR MOUNTED BOXES AND FIRE-RATED POKE-THRU ASSEMBLIES WITH ARCHITECT PRIOR TO ROUGH-IN.
0.	INSTALL ELECTRICAL EQUIPMENT SUCH THAT MANUFACTURER'S VENTILATION REQUIREMENTS AND NEC REQUIRED CLEARANCES ARE MAINTAINED.
Ρ.	MAINTAIN 2 FEET SEPARATION BETWEEN LIGHTING/POWER CIRCUITS AND A/V CIRCUITS WHERE ROUTED IN PARALLEL. CROSSINGS SHALL BE AS CLOSE TO 90 DEGREES AS POSSIBLE.
Q.	FLEXIBLE CONDUIT IS PERMITTED ONLY WHERE SPECIFICALLY ALLOWED BY SPECIFICATIONS, IN LENGTHS 6' C LESS AND WHERE CONCEALED FROM VIEW.
R.	WHERE DIMENSIONS ARE SHOWN ADJACENT TO A DEVICE (I.E. +6"), THE DEVICE SHALL BE INSTALLED WITH CENTERLINE MEASURED TO THE FINISHED FLOOR.
S.	PROVIDE PULL LINE OR TAPE IN EACH EMPTY CONDUIT LEFT FOR FUTURE USE OR FOR OTHER DISCIPLINE USE
Т.	PROVIDE GFCI PROTECTION FOR OUTLETS WHERE INDICATED AND WHERE REQUIRED BY CODE. WHERE DEV ARE MOUNTED BEHIND FIXED EQUIPMENT, GFCI BREAKERS SHALL BE PROVIDED WHERE COMMERCIALLY AVAILABLE. WHERE BOTH GFCI PROTECTION AND SHUNT TRIP FUNCTION ARE REQUIRED, OR, WHERE GFCI BREAKERS ARE NOT AVAILABLE, PROVIDE IN-LINE GFCI MODULE IN FLUSH OUTLET BOX OR FLUSH MOUNTED HINGED ENCLOSURE MOUNTED ADJACENT TO PANEL CONTAINING SHUNT TRIP BREAKER FOR THE ASSOCIATE CIRCUIT/OUTLET. LABEL ASSOCIATED RECEPTACLES AS 'GROUND FAULT PROTECTED'.
U.	CONTRACTOR SHALL PAY PARTICULAR ATTENTION DURING ROUGH-IN TO PLACEMENT OF BOXES FOR SWITCH RECEPTACLES, TELECOM OUTLETS, ETC., TO ENSURE BOXES ARE GANGED AND GROUPED TOGETHER AND ALIGNED. CONTRACTOR SHALL SPAN BETWEEN FRAMING CHANNELS AS NECESSARY TO ACCOMPLISH POSITIONING OF DEVICES AS DESCRIBED. DEVICES SHOWN ADJACENT SHALL BE MOUNTED UNDER A COMMO PLATE, UNLESS OTHERWISE NOTED. FOR HIGH FINISH AREAS, DEFER TO ARCHITECTURAL ELEVATIONS FOR D PLACEMENT, WHERE INDICATED.
V.	WHERE WIRE AND CONDUITS SIZES ARE SHOWN ON ONE PART OF A FEEDER OR BRANCH CIRCUIT, USE THE S WIRE AND RACEWAY FOR THE ENTIRE FEEDER OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
<u>FII</u>	RE ALARM GENERAL NOTES:
A.	REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF DAMPERS, DUCT SMOKE DETECTOR AND UNIT MOUNTED DETECTORS
В.	REFER TO FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS OF FLOW AND TAMPER SWITCHES
<u>SI</u>	TE GENERAL NOTES:
А. Р	CAP AND RECORD LOCATIONS OF CONDUITS STUBBED OUT UNDERGROUND AND LEFT FOR FUTURE USE.
В.	CIRCUITS SHALL BE #10 AWG.
C.	PROVIDE SPLICE/PULL BOXES WHERE REQUIRED TO SERVE SITE LIGHTING FIXTURES. LOCATE IN LANDSCAPE/PLANTER AREAS. BOXES SHALL BE MINIMUM 12"X12"X12" WITH OPEN BOTTOM AND COVER WITH IDENTIFICATION 'ELECTRICAL'. PROVIDE CLOSED BOTTOM WHERE OPEN BOTTOM IS DISALLOWED BY LOCAL A
D.	COORDINATE ELECTRICAL SERVICE ENTRANCE DUCTBANK WITH OTHER SITE SERVICES AND MAINTAIN

E. COORDINATE SITE POLE LOCATIONS WITH CIVIL DRAWINGS.

SEPARATIONS FROM OTHER SERVICES PER NESC REQUIREMENTS.

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	POWER PLAN LEGEND
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
⊠⊣ <u>60AS</u> 40AF <sup>3</sup> P	DISCONNECT SWITCH - NEMA 1 ENCLOSURE - FUSED 30A-3 POLE UNLESS OTHERWISE NOTED
	"60AS" - DENOTES SWITCH AMPERAGE RATING
	"40AF" - DENOTES FUSE AMPERAGE RATING
	"3P" - DENOTES 3-POLE
	"3R" - DENOTES NEMA 3R ENCLOSURE
	DISCONNECT SWITCH - NEMA 1 ENCLOSURE - UNFUSED
\$ <sub>M</sub>	MANUAL MOTOR STARTER WITH INTEGRAL THERMAL PROTECTION
<u>100AF</u> 3P	CIRCUIT BREAKER- AMPERAGE AND NO. OF POLES AS INDICATED.
60AT <sup>01</sup>	100AF - DENOTES CIRCUIT BREAKER FRAME 60AT - DENOTES CIRCUIT BREAKER TRIP
J	JUNCTION BOX

	WIRING DEVICE LEGEND
$\oplus$	DUPLEX RECEPTACLE NEMA 5-20R
$\blacksquare$	DOUBLE DUPLEX RECEPTACLE NEMA 5-20R
$\Phi$	SINGLE RECEPTACLE NEMA 5-20R
$\square$	DUPLEX RECEPTACLE GFI TYPE NEMA 5-20R
$\mathbf{\underline{\nabla}}$	SPECIAL PURPOSE RECEPTACLE NEMA TYPE AS INDICATED ON THE PLANS
RECEP	TACLE TYPE DESIGNATIONS:
ALL RE	CEPTACLES ARE MOUNTED 18" AFF UNLESS OTHERWISE NOTED.
"C"-	DENOTES MOUNTED 8" ABOVE WORK SURFACE OR COUNTER TOP
"ICE"-	DENOTES RECEPTACLE MOUNTED 8" ABOVE WORK SURFACE OR COUNTER TOP FOR ICE MACHINE
"MC"-	DENOTES RECEPTACLE MOUNTED IN CASEWORK FOR MICROWAVE, COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE CASEWORK VENDOR AND ARCHITECT PRIOR TO INSTALLATION
"REF"-	DENOTES RECEPTACLE MOUNTED AT 48" FOR FULL HEIGHT REFRIGERATOR

#### ABBREVIATIONS

А	AMPERES	JB	JUNCTION BOX
ACT	ACOUSTICAL CEILING TILE	KAIC	
AF	AMPERE FRAME	KCMI	
AFCI	ARC-FAULT CIRCUIT	KEC	
		NLO	CONTRACTOR
		κv	KILOVOLTS
		kVA	KILOVOLT AMPERES
		kVAR	KILOVOLT AMPERES REACTIVE
	ANNUNCIATOR	kW	KILOWATTS
ANSI	AMERICAN NATIONAL	KWH	KILOWATTS HOURS
	STANDARDS INSTITUTE		
ARCH	ABCHITECT	MC	
AT	AMPERE TRIP	MCB	MAIN CIRCUIT BREAKER
ATC	AUTOMATIC TEMPERATURE	MCC	MOTOR CONTROL CENTER
	CONTROL	MCP	MOTOR CIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH	MCSW	MOLDED CASE SWITCH
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL
BLDG	BUILDING	MECH	MECHANICAL
BOND	BONDING JUMPER	MISC	MISCELLANEOUS
BK	BRANCH	MTD	MOUNTED
C	CONDULL - RACEWAY	MTG	MOUNTING
		MV	MEDIUM VOLTAGE
CB		MLO	
СИ			CONDUCTOR)
CMS		ΝΔ	
		NC	NORMALLY CLOSED
		NEC	NATIONAL ELECTRICAL CODE
CMU		NEMA	NATIONAL ELECTRICAL
CT	CUBBENT TRANSFORMER OB		MANUFACTURERS
01	CABLE TRAY		ASSOCIATION
CU	COPPER	NFPA	NATIONAL FIRE PROTECTION
CWS	CONDUIT WALL SEAL		ASSOCIATION
DETD	DUAL ELEMENT TIME DELAY	NIC	NOT IN CONTRACT
DIA	DIAMETER	NL	NIGHT LIGHT
DP	DISTRIBUTION PANEL	NO	NORMALLY OPEN
DWG	DRAWING	OCPD	OVER CUBBENT
EA	EACH	0010	PROTECTION DEVICE
EC			DUADE
EGC			PHASE
ELEC.	ELECTRICAL		PANEL BOARD
FLEV	ELEVATOR	POS	PROVIDED UNDER OTHER
EM	EMERGENCY		SECTIONS
EMS	ENERGY MANAGEMENT SYSTEM	рт	
EN AT		ГІ	POTENTIAL TRANSFORMER
EMI	ELECTRICAL METALLIC TUBING	PVC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE,
EO	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED	PVC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY
EM I EO EQUIP	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT	PVC PWR	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER
EMT EO EQUIP EWC	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER	PVC PWR RGS	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL
EMI EO EQUIP EWC EXP	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF EIDE AL ADM	PVC PWR RGS	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT BIGID METAL CONDUIT
EMI EO EQUIP EWC EXP FA	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM EIRE ALARM	PVC PWR RGS RMC BNC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT BIGID NON-METAL CONDUIT
EMI EQUIP EWC EXP FA FA FAA FI LIOB	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR EL UORESCENT	PVC PWR RGS RMC RNC RNC RSC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT BIGID STEEL CONDUIT
EMI EO EQUIP EWC EXP FA FAA FLUOR EMS	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT	PWC PWR RGS RMC RNC RSC SATS	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC
EMT EO EQUIP EWC EXP FA FAA FLUOR FMS	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM	PVC PWR RGS RMC RNC RSC SATS	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH
EMT EO EQUIP EWC EXP FA FAA FLUOR FMS FT	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET	PWR RGS RMC RNC RSC SATS SE	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE	PVC PWR RGS RMC RNC RNC RSC SATS SE SP	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE
EMT EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU G	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND CAUCE	PWR RGS RMC RNC RSC SATS SE SP SW	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU G GA GC	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR	PVC PWR RGS RMC RNC RNC RSC SATS SE SP SW SWBD	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCHBOARD
EMT EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU G GA GC GEN	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR	PVC PWR RGS RMC RNC RSC SATS SE SP SW SWBD SWGR	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCHBOARD SWITCH GEAR
EMI EO EQUIP EWC EXP FA FAA FLUOR FT FU G GA GC GEN GE GE	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GENERATOR GROUND FAULT	PWR RGS RMC RNC RNC RSC SATS SE SP SW SWBD SWGR TEL T	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCHBOARD SWITCH GEAR TELEPHONE TWIST LOCK
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU G GA GC GEN GFI GFC	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GENERATOR GROUND FAULT GROUND FAULT INTERRUPTER GROUND FAULT INTERRUPTER GROUND FAULT INTERRUPTER	PVC PWR RGS RMC RNC RNC RSC SATS SE SP SW SWBD SWGR TEL TL	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID MON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCHBOARD SWITCH GEAR TELEPHONE TWIST LOCK
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU G GA GC GEN GFI GFCI	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT CIRCUIT INTERBUPTER	PVC PWR RGS RMC RNC RSC SATS SE SP SW SWBD SWBD SWGR TEL TL TP TRANS	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCHBOARD SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU GA GC GEN GFI GFCI GND	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND	PVC PWR RGS RMC RNC RNC RSC SATS SE SP SWBD SWBD SWBD SWGR TEL TL TP TRANS TSP	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU GA GC GEN GFI GFCI GND GWB	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND GYPSUM WALL BOARD	PVC PWR RGS RMC RNC RSC SATS SE SP SW SWBD SWBD SWBD SWBD TEL TL TP TRANS TSP UG	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU GA GC GEN GFI GFCI GND GWB HID	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GENERATOR GENERATOR GENERATOR GROUND FAULT GROUND FAULT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND GYPSUM WALL BOARD HIGH INTENSITY DISCHARGE	PVC PWR RGS RMC RNC RSC SATS SE SV SWBD SWGR TEL TL TP TRANS TSP UG	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID NON-METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCHBOARD SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER GRADE
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU G A GC GEN GFI GFCI GND GWB HID HOA HP	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER GROUND GYPSUM WALL BOARD HIGH INTENSITY DISCHARGE HAND-OFF-AUTO HORSE POWER	PVC PWR RGS RMC RNC RSC SATS SE SP SW SWBD SWGR TEL TL TP TRANS TSP UG UL	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER GRADE UNDERWRITER'S
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU GA GCC GFI GFCI GND GWB HID HOA HP HR	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT INTERRUPTER GROUND GYPSUM WALL BOARD HIGH INTENSITY DISCHARGE HAND-OFF-AUTO HORSE POWER HOUR	PVC PWR RGS RMC RNC RSC SATS SE SV SWBD SWBD SWBD SWBD SWBD SWBD SWBD SWBD	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCHBOARD SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER GRADE UNDERWRITER'S LABORATORIES
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU GA GC GGEN GFI GFCI GND GWB HID HOA HP HR HTR	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER GROUND GYPSUM WALL BOARD HIGH INTENSITY DISCHARGE HAND-OFF-AUTO HORSE POWER HOUR HEATER	PVC PWR RGS RMC RNC RSC SATS SE SW SWBD SWGR TEL TL TP TRANS TSP UG UL UNO	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER GRADE UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU GA GC GEN GFI GFCI GND GWB HID HOA HP HR HTR HVAC	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND GYPSUM WALL BOARD HIGH INTENSITY DISCHARGE HAND-OFF-AUTO HORSE POWER HOUR HEATER HEATING, VENTILATION & AIR CONDITIONING	PVC PWR RGS RMC RNC RSC SATS SE SP SW SWBD SWGR TEL TL TP TRANS TSP UG UL UNO V	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCHBOARD SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER GRADE UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE VOLT
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU GA GC GEN GFI GFCI GND HID HOA HP HR HTR HVAC HZ	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND GYPSUM WALL BOARD HIGH INTENSITY DISCHARGE HAND-OFF-AUTO HORSE POWER HOUR HEATER HEATER HEATING, VENTILATION & AIR CONDITIONING HEBTZ	PVC PWR RGS RMC RNC RSC SATS SE SV SWBD SWGR TEL TL TP TRANS TSP UG UL UNO V W/	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER GRADE UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE VOLT WITH
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU G AG GGEN GFI GFCI GND GWB HDA HP HR HTR HVAC HZ IC	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER GROUND GYPSUM WALL BOARD HIGH INTENSITY DISCHARGE HAND-OFF-AUTO HORSE POWER HOUR HEATER HEATING, VENTILATION & AIR CONDITIONING HERTZ INTERRUPTING CAPACITY	PVC PWR RGS RMC RNC RSC SATS SE SP SWBD SWBD SWBD SWBD SWBD SWBD SWBD UL UL UNO V W/ W W W	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER GRADE UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE VOLT WITH WIRE
EMI EO EQUIP EWC EXP FA FAA FLUOR FMS FT FU GA GCC GEN GFI GFCI GND GWB HID HOA HP HR HTR HVAC HZ IC INC	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR FLUORESCENT FACILITIES MANAGEMENT SYSTEM FEET FUSE GROUND GAUGE GENERAL CONTRACTOR GENERATOR GROUND FAULT GROUND FAULT GROUND FAULT INTERRUPTER GROUND GYPSUM WALL BOARD HIGH INTENSITY DISCHARGE HAND-OFF-AUTO HORSE POWER HOUR HEATER HEATING, VENTILATION & AIR CONDITIONING HERTZ INTERRUPTING CAPACITY INCANDESCENT	PVC PWR RGS RMC RNC RSC SATS SE SW SWBD SWGR TEL TL TP TRANS TSP UG UL UNO V W/ W WP A	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE, RACEWAY POWER GALVANIZED RIGID STEEL CONDUIT RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID STEEL CONDUIT STANDBY AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE SPARE SWITCH SWITCH GEAR TELEPHONE TWIST LOCK TWISTED PAIR TRANSFORMER TWISTED SHIELDED PAIR UNDERGROUND OR UNDER GRADE UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE VOLT WITH WIRE WEATHERPROOF DELTA

	LIGHTING PLAN LEGEND
FR 1	<ul> <li>LIGHTING FIXTURE AS DESIGNATED ON LIGHTING</li> <li>FIXTURE SCHEDULE</li> </ul>
<u>FR_</u> 1	"1" - DENOTES PANELBOARD BRANCH CIRCUIT NUMBER
a	"a" - DENOTES FIXTURE CONTROLLED BY LOCAL SWITCH "a"
ED	"FR" - DENOTES FIXTURE TYPE AS NOTED ON FIXTURE SCHEDULE.
	DENOTES LIGHT FIXTURE WITH INTEGRAL BATTERY FOR LIFE SAFETY.
FB 1	
a	
FR 1	

	SHEET INDEX
NUMBER	SHEET NAME
E-000-2	ELECTRICAL LEGEND, NOTES AND INDEX
E-111-2	ELECTRICAL LEVEL 1 DEMOLITION PLAN
E-112-2	ELECTRICAL LEVEL 2 DEMOLITION PLAN
E-113-2	ELECTRICAL LEVEL 3 DEMOLITION PLAN
E-114-2	ELECTRICAL LEVEL 4 DEMOLITION PLAN
E-115-2	ELECTRICAL LEVEL 5 DEMOLITION PLAN
E-116-2	ELECTRICAL PENTHOUSE DEMOLITION PLAN
E-221-2	ELECTRICAL LEVEL 1 LIGHTING PLAN
E-222-2	ELECTRICAL LEVEL 2 - LIGHING PLAN
E-223-2	ELECTRICAL LEVEL 3 LIGHTING PLAN
E-224-2	ELECTRICAL LEVEL 4 LIGHTING PLAN
E-225-2	ELECTRICAL LEVEL 5 LIGHTING PLAN
E-231-2	ELECTRICAL LEVEL 1 POWER PLAN
E-232-2	ELECTRICAL LEVEL 2 POWER PLAN
E-233-2	ELECTRICAL LEVEL 3 POWER PLAN
E-234-2	ELECTRICAL LEVEL 4 POWER PLAN
E-235-2	ELECTRICAL LEVEL 5 POWER PLAN
E-236-2	ELECTRICAL PENTHOUSE PLAN
E-500-2	ELECTRICAL DETAILS
E-501-2	ELECTRICAL DETAILS
E-800-2	ELECTRICAL SCHEDULES
E-801-2	ELECTRICAL SCHEDULES
Total: 22	

2

	SWITCHES LEGEND	
\$ <sub>a</sub>	LOCAL SWITCH, SINGLE POLE	
	"a" - DENOTES LIGHT FIXTURE CONTROL	
\$ <sub>3</sub>	LOCAL SWITCH, 3-WAY, SINGLE POLE, DOUBLE THROW	– MOUNT 48" AFF UNO
\$ <sub>D</sub>	DIMMER SWITCH, SINGLE POLE	
\$ <sub>3D</sub>	DIMMER SWITCH, 3-WAY	
\$os	OCCUPANCY SENSOR - WALL MOUNTED INTEGRAL, DUAL TECHNOLOGY, SINGLE POLE SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE.	
OS	OCCUPANCY SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY.	
FOR CEILING MOUNTED AND CORNER MOUNTED OCCUPANCY SENSORS: PROVIDE THE APPROPRIATE QUANTITY OF POWER SUPPLIES FOR SINGLE AND MULTIPLE LEVEL SWITCHING. REFER TO FLOOR PLANS FOR SWITCHING LAYOUTS TO DETERMINE EXACT QUANTITY OF POWER SUPPLIES		
WIRING METHODS		

REFER TO SPECIFICATIONS	FOR ADDITIONAL INFORMATION
NORMAL SYSTEM FEEDERS	THHN/THWN/XHHW CONDUCTORS IN EMT
NORMAL BRANCH CIRCUITS	THHN/THWN/XHHW CONDUCTORS IN EMT
EMERGENCY SYSTEM (LIFE SAFETY AND CRITICAL) BRANCH CIRCUITS	THHN/THWN/XHHW CONDUCTORS IN EMT
FIRE ALARM SYSTEM WIRING	CONDUCTORS IN EMT OR MC CABLE

# **DEMOLITION NOTES**

- A. ALL WORK SHOWN IS THE RESULT OF LIMITED FIELD INVESTIGATION AND EXISTING ORIGINAL PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND INFORM THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING.
- B. IF ALL DEVICES/LIGHT FIXTURES ON A CIRCUIT ARE REMOVED, REMOVE CONDUCTORS AND RACEWAY BACK TO PANEL UNLESS OTHERWISE NOTED. IF ALL DEVICES ARE NOT REMOVED, CONNECT REMAINING DEVICES BACK TO ORIGINAL CIRCUIT.
- C. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE WORK BEGINS. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING WORK AND REVIEW ALL AREAS CONCERNED WITH THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE DESIGNER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS INDICATING ANY ADDITIONAL WORK REQUIRED TO BE PERFORMED WITH EXPLANATION OF WORK.
- D. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE ALL DEMOLITION WORK WITH THE OWNER WELL IN ADVANCE. WORK SHALL BE PERFORMED AT SUCH TIMES AND UNDER SUCH CONDITIONS AS SUITS THE OWNER. COORDINATE ELECTRICAL SYSTEMS OPERATION INTERRUPTIONS WITH BUILDING OPERATIONS PERSONNEL. DEMOLITION SHALL BE STAGED TO MAINTAIN DOWNTIME AT AN ABSOLUTE MINIMUM.
- E. PATCH HOLES LEFT IN WALLS AND FLOORS AFTER REMOVAL OF EXISTING PIPING, CONDUIT, ETC... TO MATCH NEW OR EXISTING CONSTRUCTION AND FIRE RATING.
- F. CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF EQUIPMENT AND ITEMS TO BE REMOVED TO THE OWNER. ALL ITEMS THAT THE OWNER WISHES TO RETAIN SHALL BE PLACED IN STORAGE AND THE REMAINDER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- G. REMOVE ALL JUNCTION BOXES, CONDUIT, PIPE HANGERS, STRAPS OR TIE WIRES ANCHORED IN CONCRETE SLAB ABOVE CEILING THAT ARE NO LONGER IN USE.
- H. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE DERIVED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THESE DRAWINGS ARE NOT ALL INCLUSIVE OF SERVICES THAT EXIST IN THE PROJECT AREA. CONTRACTOR SHALL VERIFY SERVICES, LOCATION, TYPE, AND SIZES PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS IMPACTING WORK SHOWN ON THESE DOCUMENTS SHALL BE REPORTED TO THE DESIGNER FOR COORDINATION PRIOR TO DEMOLITION.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL, FLOOR AND CEILING DEMOLITION REQUIREMENTS. J. COORDINATE WITH MECHANICAL DRAWINGS FOR ELECTRICAL
- DEMOLITION REQUIREMENTS. K. IF ANY EXISTING CIRCUITS ARE TO REMAIN FROM PANEL THAT IS IN THE DEMOLITION AREA, NOTIFY ENGINEER OF NUMBER OF CIRCUITS TO REMAIN, WHAT THE CIRCUITS SERVE AND CIRCUIT SIZE FOR DIRECTION PRIOR TO DEMOLITION OF PANEL.

	MEC	HANICA	AL EQUIPMENT COORDINATION
ELI PLI LO	ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND QUANTITIES OF EQUIPMENT RELEASED TO EACH TRADE.		
	⊡ \$ <sub>M</sub>	VFD	PROVIDED BY ELECTRICAL CONTRACTOR
	□ \$ <sub>M</sub>	VFD	PROVIDED BY MECHANICAL CONTRACTOR
		DEM	
"X"	EXISTING	ELECTRIC	CAL DEVICE SHALL BE REMOVED
"XR"	EXISTING RELOCATI	ELECTRIC ED	CAL DEVICE SHALL BE REMOVED AND
"XL"	EXISTING	ELECTRIC	CAL DEVICE INDICATED IN NEW LOCATION
"XN"	EXISTING BE REMO BOX, RAC	ELECTRIC /ED AND F EWAY ANI	CAL DEVICE AND COVER PLATE ONLY SHALL REPLACED WITH NEW; MAINTAIN EXISTING D WIRING.
"E"	EXISTING	ELECTRIC	CAL DEVICE SHALL BE MAINTAINED

<u>EXAMPLE</u>

![](_page_52_Figure_29.jpeg)

![](_page_53_Figure_0.jpeg)

![](_page_53_Figure_5.jpeg)

![](_page_54_Figure_0.jpeg)

3

### **DEMOLITION PLAN NOTES**

WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT'S AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.

	KEYNOTES
Keynote Number	Keynote Description
1	EXISTING LIGHTING FIXTURES SHALL BE REMOVED. EXISTING CONDUIT AND WIRE SHALL BE MAINTAINED FOR REUSE IN NEW WORK PHASE. EXISTING LIGHTING CONTROLS TO REMAIN AND BE REUSED IN NEW WORK PHASE UNLESS OTHERWISE NOTED.
2	UNDERCABINET LIGHTING FIXTURES SHALL BE DISCONNECTED AND REMOVED. ALL ASSOCIATED WIRING, CONDUIT, AND CONTROLS FOR UNDERCABINET LIGHTING SHALL BE REMOVED BACK TO POINT OF ORIGIN.
3	DISCONNECT AND REMOVE EXISTING SINGLE POLE TOGGLE SWITCH. EXISTING CONDUIT AND WIRE SHALL BE MAINTAINED FOR REUSE IN NEW WORK PHASE.
4	DISCONNECT AND REMOVE EXISTING RECEPTACLES SERVING KITCHEN AREA. MAINTAIN EXISTING WIRING AND CONDUIT FOR REUSE IN NEW WORK.
5	DISCONNECT AND REMOVE EXISTING FIRE ALARM STROBE. DEVICE TO BE RELOCATED AND WIRING EXTENDED DURING NEW WORK.
6	DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND BRANCH CONTROLLERS. ALL EXISTING CONDUIT, WIRE, DISCONNECTS, AND ALL ASSOCIATED ANCILLARY EQUIPMENT SHALL BE MAINTAINED FOR REUSE UNLESS OTHERWISE NOTED.
7	DISCONNECT AND REMOVE EXISTING CEILING FANS. ALL EXISTING CONDUIT, WIRE, DISCONNECTS, AND ALL ASSOCIATED ANCILLARY EQUIPMENT SHALL BE MAINTAINED FOR REUSE UNLESS

![](_page_54_Figure_8.jpeg)

![](_page_55_Figure_0.jpeg)

### **DEMOLITION PLAN NOTES**

1

WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT'S AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.

KEYNOTES		
Keynote Number	Keynote Description	
1	EXISTING LIGHTING FIXTURES SHALL BE REMOVED. EXISTING CONDUIT AND WIRE SHALL BE MAINTAINED FOR REUSE IN NEW WORK PHASE. EXISTING LIGHTING CONTROLS TO REMAIN AND BE REUSED IN NEW WORK PHASE UNLESS OTHERWISE NOTED.	
2	DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND BRANCH CONTROLLERS. ALL EXISTING CONDUIT, WIRE, DISCONNECTS, AND ALL ASSOCIATED ANCILLARY EQUIPMENT SHALL BE MAINTAINED FOR REUSE UNLESS OTHERWISE NOTED.	

![](_page_55_Figure_9.jpeg)

![](_page_56_Figure_0.jpeg)

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### DEMOLITION PLAN NOTES

1.	WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT'S AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.		
	KEYNOTES		
Keynote Number	Keynote Description		
1	EXISTING LIGHTING FIXTURES SHALL BE REMOVED. EXISTING CONDUIT AND WIRE SHALL BE MAINTAINED FOR REUSE IN NEW WORK PHASE. EXISTING LIGHTING CONTROLS TO REMAIN AND BE REUSED IN NEW WORK PHASE UNLESS OTHERWISE NOTED.		
2	DISCONNECT AND REMOVE EXISTING FAN COIL UNITS AND BRANCH CONTROLLERS. ALL EXISTING CONDUIT, WIRE, DISCONNECTS, AND ALL ASSOCIATED ANCILLARY EQUIPMENT SHALL BE MAINTAINED FOR REUSE UNLESS OTHERWISE NOTED.		

![](_page_56_Picture_12.jpeg)

![](_page_57_Figure_0.jpeg)

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E-115-2
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3

# DEMOLITION PLAN NOTES

1. WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT'S AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA.

KEYNOTES		
Keynote Number	Keynote Description	
1	EXISTING LIGHTING FIXTURES SHALL BE EMOVED. EXISTING CONDUIT AND WIRE SHALL BE MAINTAINED FOR REUSE IN NEW WORK PHASE. EXISTING LIGHTING CONTROLS TO REMAIN AND BE REUSED IN NEW WORK PHASE UNLESS OTHERWISE NOTED.	
2	DISCONNECT AND REMOVE EXISTING FAN COIL UNITS, HEAT PUMP AND BRANCH CONTROLLERS. ALL EXISTING CONDUIT, WIRE, DISCONNECTS, AND ALL ASSOCIATED ANCILLARY EQUIPMENT SHALL BE MAINTAINED FOR REUSE UNLESS OTHERWISE NOTED.	

![](_page_57_Figure_12.jpeg)

![](_page_58_Figure_0.jpeg)

![](_page_58_Figure_2.jpeg)

![](_page_59_Figure_0.jpeg)

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KEYNOTES		
Keynote Number	Keynote Description	
1	EXISTING LIFE SAFETY LIGHTING CIRCUIT SHALL BE INTERCEPTED AND EXTENDED TO FEED NEW LIGHTING. CONTRACTOR SHALL PROVIDE NEW CONDUIT AND WIRE AS NECCESSARY TO EXTEND CIRCUIT. NEW WIRING AND CONDUIT SHALL MATCH EXISTING IN ALL RESPECTS.	
2	EXISTING SWITCHES SHALL BE REPLACED. CONTRACTOR SHALL INTERCEPT AND EXTEND EXISTING WIRING TO NEW LIGHTING CONTROLS. NEW CONDUIT AND WIRE SHALL BE PROVIDED AS NECESSARY TO EXTEND. NEW CONDUIT AND WIRE SHALL MATCH EXISTING IN ALL RESPECTS.	

# LIGHTING PLAN NOTES

- CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS THE INTENT IS TO REPLACE ALL EXISTING LIGHTING FIXTURES WITH LED LIGHTING FIXTURES. EXISTING WIRING AND CONDUIT TO BE REUSED AND EXTENDED TO NEW LIGHTING FIXTURE. ALL
- EXISTING TO REMAIN UNLESS OTHERWISE NOTED. EXISTING CONTROL WIRING TO BE EXTENDED TO NEW LIGHTING FIXTURES UNLESS OTHERWISE NOTED. LIGHTING FIXTURES WITHIN STAIRWELLS SHALL BE CONTROLLED TO BE DIMMED TO 50% WHEN NOT IN USE AND 100% WHEN CONTROLS ARE ACTIVATED. STAIRWELL LIGHTING SHALL BE CONNECTED TO BOTH
- KITCHEN AREA IS A FULL RENOVATION IN LIEU OF A ONE FOR ONE LIGHTIN REPLACEMENT. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO NEW LIGHTING FIXTURES. EXISTING CONTROLS SHALL REMAIN UNLESS OTHERWISE NOTED. NEW CONTROL WIRING SHALL BE PROVIDED AS NECESSARY TO SUPPORT NEW LIGHTING CONTROL DEVICES. NEW LIGHTING CONTROL SHALL BE INSTALLED AS INDICATED INCLUDING MEETING ROOM, BATHROOMS, KITCHEN, AND LIVING

![](_page_59_Figure_8.jpeg)

![](_page_60_Figure_0.jpeg)

KEYNOTES		
Keynote Number	Keynote Description	
1	EXISTING LIFE SAFETY LIGHTING CIRCUIT SHALL BE INTERCEPTED AND EXTENDED TO FEED NEW LIGHTING. CONTRACTOR SHALL PROVIDE NEW CONDUIT AND WIRE AS NECCESSARY TO EXTEND CIRCUIT. NEW WIRING AND CONDUIT SHALL MATCH EXISTING IN ALL RESPECTS.	
2	EXISTING SWITCHES SHALL BE REPLACED. CONTRACTOR SHALL INTERCEPT AND EXTEND EXISTING WIRING TO NEW LIGHTING CONTROLS. NEW DIMMER SWITCHES SHALL MATCH EXISTING TOGGLE SWITCH STYLE. NEW CONDUIT AND WIRE SHALL BE PROVIDED AS NECESSARY TO EXTEND. NEW CONDUIT	
3	RELOCATE SWITCHES AS REQUIRED TO COORDINATE WITH FIRE EXTINGUISHER LOCATION ON THE KITCHEN SIDE OF THIS WALL.	

- CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS THE INTENT IS TO REPLACE ALL EXISTING LIGHTING FIXTURES WITH LED LIGHTING FIXTURES. EXISTING WIRING AND CONDUIT TO BE REUSED AND EXTENDED TO NEW LIGHTING FIXTURE. ALL CONTROLS INCLUDING DEVICE, CONDUIT, AND WIRING ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. EXISTING CONTROL WIRING TO BE EXTENDED TO NEW LIGHTING FIXTURES
- UNLESS OTHERWISE NOTED. LIGHTING FIXTURES WITHIN STAIRWELLS SHALL BE CONTROLLED TO BE DIMMED TO 50% WHEN NOT IN USE AND 100% WHEN CONTROLS ARE ACTIVATED. STAIRWELL LIGHTING SHALL BE CONNECTED TO BOTH EMERGENCY AND NORMAL LIGHTING BRANCH CIRCUITS. KITCHEN AREA IS A FULL RENOVATION IN LIEU OF A ONE FOR ONE LIGHTING REPLACEMENT. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED TO NEW LIGHTING FIXTURES.
- NOTED. NEW CONTROL WIRING SHALL BE PROVIDED AS NECESSARY TO SUPPORT NEW LIGHTING CONTROL DEVICES. NEW LIGHTING CONTROL SHALL BE INSTALLED AS INDICATED INCLUDING MEETING ROOM, BATHROOMS, KITCHEN, AND LIVING

![](_page_60_Picture_11.jpeg)

![](_page_61_Figure_0.jpeg)

2 ELECTRICAL - LEVEL 3 - LIGHTING PLAN - PHASE 2 €-223-2⁄1/4" = 1'-0"

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2

3

# LIGHTING PLAN NOTES CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE 1. NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS. 2. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS THE INTENT IS TO REPLACE ALL EXISTING LIGHTING FIXTURES 3. WITH LED LIGHTING FIXTURES. EXISTING WIRING AND CONDUIT TO BE REUSED AND EXTENDED TO NEW LIGHTING FIXTURE. ALL CONTROLS INCLUDING DEVICE, CONDUIT, AND WIRING ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. EXISTING CONTROL WIRING TO BE EXTENDED TO NEW LIGHTING FIXTURES UNLESS OTHERWISE NOTED. LIGHTING FIXTURES WITHIN STAIRWELLS SHALL BE CONTROLLED TO BE DIMMED TO 50% WHEN NOT IN USE AND 100% WHEN CONTROLS ARE ACTIVATED. STAIRWELL LIGHTING SHALL BE CONNECTED TO BOTH EMERGENCY AND NORMAL LIGHTING BRANCH CIRCUITS. EXISTING CONTROLS SHALL REMAIN UNLESS OTHERWISE NOTED. NEW CONTROL WIRING SHALL BE PROVIDED AS NECESSARY TO Λ SUPPORT NEW LIGHTING CONTROL DEVICES. NEW LIGHTING CONTROL SHALL BE INSTALLED AS INDICATED INCLUDING MEETING ROOM, BATHROOMS, KITCHEN, AND LIVING ROOM. KEYNOTES Keynote Number Keynote Description 1 EXISTING LIFE SAFETY LIGHTING CIRCUIT SHALL BE INTERCEPTED AND EXTENDED TO FEED NEW LIGHTING. CONTRACTOR SHALL PROVIDE NEW CONDUIT AND WIRE AS NECCESSARY TO EXTEND CIRCUIT. NEW WIRING AND CONDUIT SHALL MATCH EXISTING IN ALI RESPECTS. EXISTING SWITCHES SHALL BE REPLACED. CONTRACTOR SHALL INTERCEPT AND EXTEND EXISTING WIRING TO NEW LIGHTING 2 CONTROLS. NEW CONDUIT AND WIRE SHALL BE PROVIDED AS NECESSARY TO EXTEND. NEW CONDUIT AND WIRE SHALL MATCH EXISTING IN ALL RESPECTS. INTERCEPT, EXTEND, AND REMOUNT EXISTING LIGHTING JUNCTION BOXES LOCATED ABOVE CEILING. 2 23 23 23 BEDROOM 11B-301A <u>BEDROOM</u> 11A-301B BEDROOM LD1 1 ENTRY 11A-301 **0** 1 $\square$ (05) ADA TOILET AVATOR) 11A-301D LAUNDR 11A-303 <u>STUDY</u> 11A-302 E∕ Ĕ₹ LW4E LD1 O <u>CORR.</u> 11B-3C1 NIC <u>ELEV</u> 11B-3E1 <u>CORR.</u> 11A-3C1 LD2E Ø

11A-300A

(3)

<u>BEDROOM</u> 11A-300

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<u>MECH.</u> 11B-304 11B-304

NIC

0FFICE 11A-305

NTRY 1

LAVATORY 11B-301D

<u>STUDY</u> 11B-302

OFFICE

![](_page_61_Picture_4.jpeg)

![](_page_62_Figure_0.jpeg)

3

## LIGHTING PLAN NOTES

1. CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED 2. FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS THE INTENT IS TO REPLACE ALL EXISTING LIGHTING FIXTURES WITH LED LIGHTING FIXTURES. EXISTING WIRING AND CONDUIT TO BE REUSED AND EXTENDED TO NEW LIGHTING FIXTURE. ALL CONTROLS INCLUDING DEVICE, CONDUIT, AND WIRING ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. EXISTING CONTROL WIRING TO BE EXTENDED TO NEW LIGHTING FIXTURES UNLESS OTHERWISE NOTED. LIGHTING FIXTURES WITHIN STAIRWELLS SHALL BE CONTROLLED TO BE DIMMED TO 50% WHEN NOT IN USE AND 100% WHEN CONTROLS ARE ACTIVATED. STAIRWELL LIGHTING SHALL BE CONNECTED TO BOTH EMERGENCY AND NORMAL LIGHTING BRANCH CIRCUITS. EXISTING CONTROLS SHALL REMAIN UNLESS OTHERWISE NOTED. 4. NEW CONTROL WIRING SHALL BE PROVIDED AS NECESSARY TO SUPPORT NEW LIGHTING CONTROL DEVICES. NEW LIGHTING CONTROL SHALL BE INSTALLED AS INDICATED INCLUDING MEETING ROOM, BATHROOMS, KITCHEN, AND LIVING ROOM. **KEYNOTES** 

Keynote Number	Keynote Description
1	EXISTING LIFE SAFETY LIGHTING CIRCUIT SHALL BE INTERCENT AND EXTENDED TO FEED NEW LIGHTING. CONTRACTOR SHAL PROVIDE NEW CONDUIT AND WIRE AS NECCESSARY TO EXTE CIRCUIT. NEW WIRING AND CONDUIT SHALL MATCH EXISTING RESPECTS.
2	EACH LIGHT SHALL BE CONTROLLED FROM A SEPARATE EXIS LIGHTING SWITCH LOCATED WITHIN THE BEDROOMS.
3	INTERCEPT, EXTEND, AND REMOUNT EXISTING LIGHTING JUN BOXES LOCATED ABOVE CEILING.

![](_page_62_Picture_9.jpeg)

![](_page_63_Figure_0.jpeg)

3

 $\begin{array}{c|c} 1 \\ \hline E \\ \hline E \\ \hline E \\ \hline 225 \\ \hline 2 \\ \hline 1/4" = 1' \\ -0" \\ \hline 0 \\ \hline 4' \\ 8' \\ \hline 16' \\ \hline \end{array}$ 

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# LIGHTING PLAN NOTES

2	EACH LIGHT SHALL BE CONTROLLED FROM A SEPARATE EXISTING LIGHTING SWITCH LOCATED WITHIN THE BEDROOMS.
1	EXISTING LIFE SAFETY LIGHTING CIRCUIT SHALL BE INTERCEPTED AND EXTENDED TO FEED NEW LIGHTING. CONTRACTOR SHALL PROVIDE NEW CONDUIT AND WIRE AS NECCESSARY TO EXTEND CIRCUIT. NEW WIRING AND CONDUIT SHALL MATCH EXISTING IN ALL RESPECTS.
Keynote Number	Keynote Description
	KEYNOTES
4.	EXISTING CONTROLS SHALL REMAIN UNLESS OTHERWISE NOTED. NEW CONTROL WIRING SHALL BE PROVIDED AS NECESSARY TO SUPPORT NEW LIGHTING CONTROL DEVICES. NEW LIGHTING CONTROL SHALL BE INSTALLED AS INDICATED INCLUDING MEETING ROOM, BATHROOMS, KITCHEN, AND LIVING ROOM.
3.	THE INTENT IS TO REPLACE ALL EXISTING LIGHTING FIXTURES WITH LED LIGHTING FIXTURES. EXISTING WIRING AND CONDUIT TO BE REUSED AND EXTENDED TO NEW LIGHTING FIXTURE. ALL CONTROLS INCLUDING DEVICE, CONDUIT, AND WIRING ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. EXISTING CONTROL WIRING TO BE EXTENDED TO NEW LIGHTING FIXTURES UNLESS OTHERWISE NOTED. LIGHTING FIXTURES WITHIN STAIRWELLS SHALL BE CONTROLLED TO BE DIMMED TO 50% WHEN NOT IN USE AND 100% WHEN CONTROLS ARE ACTIVATED. STAIRWELL LIGHTING SHALL BE CONNECTED TO BOTH EMERGENCY AND NORMAL LIGHTING BRANCH CIRCUITS.
2.	BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS
1.	CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS.

INTERCEPT, EXTEND, AND REMOUNT EXISTING LIGHTING JUNCTION BOXES LOCATED ABOVE CEILING.

![](_page_63_Figure_6.jpeg)

![](_page_64_Figure_0.jpeg)

#### POWER PLAN NOTES

- CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL 1. DEVICES WITH ARCHITECTS DRAWINGS PRIOR TO ROUGH IN.
- CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS.
- BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS.
- COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING, AND FIRE PROTECTION
- THE INTENT IS TO INTERCEPT, EXTEND, AND CONNECT TO THE EXISTING WIRING AND CONDUIT SERVING THE EXISTING HVAC

	KEYNOTES
Keynote Number	Keynote Description
1	REPLACE EXISTING 60A-3P CIRCUIT BREAKER SERVING EXISTIN HVAC EQUIPMENT WITH NEW 50A-3P CIRCUIT BREAKER. EXISTI EXPOSED AND BURIED CONDUIT AND WIRE TO BE PROTECTED A MAINTAINED FOR REUSE. INTERCEPT, EXTEND, AND CONNECT EXISTING WIRING AND CONDUIT
2	INTERCEPT, EXTEND, AND CONNECT TO EXISTING WIRING SERV PREVIOUSLY DEMOLISHED BRANCH CONTROLLER.
3	INTERCEPT, EXTEND, AND CONNECT TO EXISTING WIRING SERV PREVIOUSLY DEMOLISHED BRANCH CONTROLLER.
4	INTERCEPT, EXTEND, AND CONNECT TO EXISTING WIRING SERV PREVIOUSLY DEMOLISHED BRANCH CONTROLLER.
6	PROVIDE NEW CEILING FAN EQUAL TO HUNTER MODEL DEMPSE LOW PROFILE 52 INCH AND NEW DUAL SLIDE SWITCH CONTROL
7	RECONNECT NEW MECHANICAL EQUIPMENT TO SALVAGED CIRCUITRY.
8	RECONNECT NEW MECHANICAL TERV EQUIPMENT TO SALVAGE ELECTRICAL WIRING.

![](_page_64_Picture_12.jpeg)

![](_page_65_Figure_0.jpeg)

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#### **POWER PLAN NOTES**

- CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL 6. 1. DEVICES WITH ARCHITECTS DRAWINGS PRIOR TO ROUGH IN.
- CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. 2. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE

- KEYNOTES Keynote Description INTERCEPT, EXTEND, AND CONNECT TO EXISTING WIRING SERVING

![](_page_65_Picture_10.jpeg)

![](_page_66_Figure_0.jpeg)

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2

# POWER PLAN NOTES

- CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL 1. DEVICES WITH ARCHITECTS DRAWINGS PRIOR TO ROUGH IN. CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. 2. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED 3. FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING, AND FIRE PROTECTION
- THE INTENT IS TO INTERCEPT AND EXTEND THE EXISTING WIRING AND CONDUIT SERVING THE EXISTING HVAC EQUIPMENT AND REROUTE TO NEW HVAC EQUIPMENT. EXISTING WIRING AND CONDUIT SERVING BATHROOM RECEPTACLES SHALL BE

	KEYNOTES
Keynote Number	Keynote Description
2	NTERCEPT, EXTEND, AND CONNECT TO EXISTING WIRING SERVING PREVIOUSLY DEMOLISHED BRANCH CONTROLLER.

![](_page_66_Picture_10.jpeg)

![](_page_67_Figure_0.jpeg)

2

# POWER PLAN NOTES

CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL 1 DEVICES WITH ARCHITECTS DRAWINGS PRIOR TO ROUGH IN. CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE 2. NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED 3. FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING, AND FIRE PROTECTION THE INTENT IS TO INTERCEPT AND EXTEND THE EXISTING WIRING AND CONDUIT SERVING THE EXISTING HVAC EQUIPMENT AND REROUTE TO NEW HVAC EQUIPMENT. EXISTING WIRING AND CONDUIT SERVING BATHROOM RECEPTACLES SHALL BE REROUTED TO NEW DEVICES.

	KEYNOTES
Keynote Number	Keynote Description
1	NTERCEPT, EXTEND, AND CONNECT TO EXISTING WIRING SERV PREVIOUSLY DEMOLISHED BRANCH CONTROLLER.

![](_page_67_Picture_9.jpeg)

![](_page_68_Figure_0.jpeg)

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# POWER PLAN NOTES

 CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL DEVICES WITH ARCHITECTS DRAWINGS PRIOR TO ROUGH IN.
 CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS.
 BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS.
 COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING, AND FIRE PROTECTION DRAWINGS.
 THE INTENT IS TO INTERCEPT AND EXTEND THE EXISTING WIRING AND CONDUIT SERVING THE EXISTING HVAC EQUIPMENT AND REROUTE TO NEW HVAC EQUIPMENT.

\_\_\_\_\_

	KEYNOTES
leynote Iumber	Keynote Description
1	INTERCEPT, EXTEND, AND CONNECT TO EXISTING WIRING SER PREVIOUSLY DEMOLISHED BRANCH CONTROLLER.

![](_page_68_Picture_9.jpeg)

![](_page_69_Figure_0.jpeg)

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![](_page_69_Figure_10.jpeg)

		CAST BONE ADJU SECU	BRONZE RE DING CLAMP ST AND INSU RE BOND.	Ebar . Field Jre A
	3/4 ' WIT CON EXIT PEF	' PVC CON HIN COLUN NSTRUCTIC T BELOW G RMANENTL	DUIT,COURS /IN AND/OR \ DN; iRADE. SEA Y WATER TIC	SE CONCEALI WALL L ENDS OF C GHT.
	DOV CON CON GRA	WNLEAD C NCEALED V NSTRUCTIC ADE.	ONDUCTOR VITHIN COLL ON AND EXIT	IN CONDUIT, JMN AND/OR ED BELOW
			ROOFING	
			RIGID INS	ULATION
			METAL RC	OOF DECK
			STRUCTU STEEL BE	RAL AM
<u>►</u> S <sup>-</sup> TC IN	IOTE: TRUCTURA D THE ROC NTERVALS	AL STEEL S DF PERIME OF NOT M	HALL BE BO FER CONDUC DRE THAN 1	NDED CTOR AT 00 FEET.
1.		STALLATIC	N SHALL CC	
<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> </ol>	CONNECT AIR TERMI INTERMED WITHIN 2'-I MIDROOF ENTIRE RC GROUNDE ROOF DRA ELECTRICA SYSTEM A BOND MET STRUCTUF LOOP. REINFORC ELECTRICA BOLTING, 0 TELEPHON TO ONE LI THE LIGHT MANNER NO BEND 0 90 DEGRE CONDUCT EACH AIR TERMINAL LIGHTNINC ADHESIVE COORDINA JOBSITE C BARE COP ROOF OR PROTECTI SIDING OF LIGHTNINC ENTRANCI SEAL END THE LIGHT INSTITUTE OF A "LPI"	IONS TO G NALS SHAI DIATELY ON O" OF OUTS AREAS SHA DOF AREA ED METAL E AINS, EXHA AL SERVIC S REQUIRE FALLIC PIPE REWITHIN CING, STRU ALLY CONTO OR OTHER WITHIN CING, STRU ALLY CONTO OR OTHER OR OTHER OR OTHER OR OTHER OR OTHER OR SHAL TERMINAL S. ORS SHAL TERMINAL S. ORS SHAL TERMINAL S. ORS SHAL TERMINAL S. ORS SHAL TERMINAL S. OR PROTECT SIDING OR ON MATEF ONDITION: CONDITION: CON MATEF ON MATEF ON MATEF CON CONE S OF CONE S OF CONE S OF CONE S OF CONE S OF CONE	ROUND ROE L BE PLACE I 20'-0" MAXII SIDE EDGE. ALL BE PRO' IN ACCORD/ BODIES LOC/ UST FANS, / ES, ETC. SH ED BY NFPA ES INCLUDIN 12' OF GRAI CTURAL, FR INUOUS TH APPROVED ELECTRIC SP ROTECTION SY LL COMPON DUCTOR SH/ ALL HAVE A L INTERCON HORIZONTA ION CONDL INGS, IF USE IVE COMPON INGS, IF USE IVE COMPON INGS, IF USE IVE COMPON ION OF AIR S. INING PROT OTHER ALU SHALL SHALL DPPER SUR DUIT MOISTL TECTION INS D 175. THE MASTER IN SHALL MEET MASTER LA	D SHALL BE M ED AT UNPRO MUM SPACIN VIDED WITH / ANCE WITH N ATED ABOUT AIR HANDLING ALL BE INTEF 780. IG WATER, FIDE TO THE NI CAMING AND I ROUGHOUT METHODS. SERVICE ENT AGROUND O STEM SHALL ENTS WILL B ALL FORM A F A RADIUS OF INECT AIR TE ALL F A RADIUS A A RADIUS OF INECT AIR TE ALL F A RADIUS A A RADIUS OF INECT AIR TE ALL F A RADIUS A A RADI

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![](_page_70_Figure_85.jpeg)

![](_page_70_Figure_89.jpeg)

![](_page_71_Picture_0.jpeg)

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![](_page_71_Figure_98.jpeg)

![](_page_71_Figure_102.jpeg)
## Existing Branch... LJ1 - SEC. 1

Location: Space 122 UTILITY Supply From:

Mounting: Surface Enclosure: Type 1

Volts: 208Y/120 Phases: 3 Wires: 4

A.I.C. Rating: 42 kAIC Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A

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(1)-	
-	

скт	Circuit Description	Trip	Poles		A		В		с	Poles	Trip	Circuit De
1	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD
3	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD
5	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD
7	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD
9	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD
11	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD
13	RCPT - DISHWASHER	20 A	1	0.18	0.00					1	20 A	EXISTING LOAD
15	RCPT - DISPOSAL	20 A	1			0.18	0.18			1	20 A	RCPT - KITCHEN
17	EXISTING LOAD	20 A	1					0.00	0.36	1	20 A	RCPT - KITCHEN
19	RCPT - KITCHEN	20 A	1	0.36	0.50					1	20 A	VRF CONTROLLER
21	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
23	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
25	RCPT - MICROWAVE	20 A	1	0.18	0.00					1	20 A	EXISTING SPARE
27	RCPT - REFRIGERATOR	20 A	1			0.18	0.00			1	20 A	EXISTING SPARE
29	RCPT - REFRIGERATOR	20 A	1					0.18	0.00	1	20 A	EXISTING SPARE
31				0.18	0.00					1	20 A	EXISTING SPARE
33	RCPT - OVEN	50 A	3			0.00	0.00			1	20 A	EXISTING SPARE
35								0.00	0.00	1	20 A	EXISTING SPARE
37	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING SPARE
39	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
41	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
		Tota	al Load:	1.40	kVA	0.54	1 kVA	0.54	kVA			
		Tota	I Amps:	12	2 A	5	5 A	5	A	-		

	EX Notes:	xisting Branch Ll1 - SE Location: Space 125 UTILITY Supply From: Mounting: Surface Enclosure: Type 1	EC.1				Volts: Phases: Wires:	208Y/12 3 4	20				A.I.C. Rating: 30 kAIC Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A
	скт	Circuit Description	Trip	Poles		Δ		B		c	Poles	Trip	Circuit Description
	1	EXISTING LOAD	20 A	1	0.00	0.00	· · · · ·	_			1	20 A	EXISTING LOAD
	3	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD
	5	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD
	7	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD
	9	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD
	11	EXISTING SPARE	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD
	13	RCPT - DISHWASHER	20 A	1	0.18	0.00					1	20 A	EXISTING LOAD
	15	RCPT - DISPOSAL	20 A	1			0.18	0.36			1	20 A	RCPT - KITCHEN
	17	EXISTING LOAD	20 A	1					0.00	0.36	1	20 A	RCPT - KITCHEN
	19	RCPT - KITCHEN	20 A	1	0.18	0.00					1	20 A	EXISTING SPARE
	21	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
	23	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
	25	RCPT - MICROWAVE	20 A	1	0.18	0.00					1	20 A	EXISTING SPARE
	27	RCPT - REFRIGERATOR	20 A	1			0.18	0.00			1	20 A	EXISTING SPARE
	29	RCPT - REFRIGERATOR	20 A	1					0.18	0.00	1	20 A	EXISTING SPARE
$\bigcirc$	31	_			0.18	0.00					1	20 A	EXISTING SPARE
$\bigcirc$	33	RCPT - OVEN	50 A	3			0.00	0.00			1	20 A	EXISTING SPARE
	35								0.00	0.00	1	20 A	EXISTING SPARE
	37	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING SPARE
	39	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
	41	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
			Tota	al Load:	0.72	kVA	0.72	2 kVA	0.54	l kVA			
			Tota	I Amps:	6	A	6	A	5	A			

С



**Circuit Description** 

Enclosure: Type 1

04				I	Volts: Phases: Wires:	208Y/12 3 4	20				A.I.C. Rating: 30 kA Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A
	Trip	Poles		4	1	3		C	Poles	Trip	Circuit
	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD
	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD
	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD
	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD
	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD
	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD
	20 A	1	0.18	0.00					1	20 A	EXISTING LOAD
	20 A	1			0.18	0.36			1	20 A	RCPT - KITCHEN
	20 A	1					0.00	0.36	1	20 A	RCPT - KITCHEN
	20 A	1	0.18								
	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
	20 A	1	0.18	0.00					1	20 A	EXISTING SPARE
	20 A	1			0.18	0.00			1	20 A	EXISTING SPARE
	20 A	1					0.18	0.00	1	20 A	EXISTING SPARE
			0.18	0.00					1	20 A	EXISTING SPARE
	50 A	3			0.00	0.00			1	20 A	EXISTING SPARE
							0.00	0.00	1	20 A	EXISTING SPARE
	20 A	1	0.00	0.00					1	20 A	EXISTING SPARE
	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
	Tota	al Load:	0.72	kVA	0.72	kVA	0.54	kVA			
	Tota	I Amps:	6	A	6	A	5	A			

A.I.C. Rating: 30 kAIC Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A

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СКТ

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Legend:

37 EXISTING LOAD 39 EXISTING LOAD 41 EXISTING LOAD

1 EXISTING LOAD 3 EXISTING LOAD 5 EXISTING LOAD 7 EXISTING LOAD 9 EXISTING LOAD 11 EXISTING LOAD 13 RCPT - DISHWASHER 15 RCPT - DISPOSAL 17 EXISTING LOAD 19 RCPT - KITCHEN 21 EXISTING LOAD 23 EXISTING LOAD 25 RCPT - MICROWAVE 27 RCPT - REFRIGERATOR 29 RCPT - REFRIGERATOR

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## Evicting Branch | 11 - CEC 2



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СКТ	Circuit Description	Trip	Poles		A	I	В	(	2	Poles	Trip	Circuit
1	EXISTING LOAD	30 A	1	0.00	0.00					1	20 A	EXISTING SPARE
3	EXISTING SPARE	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
5	EXISTING SPARE	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
7	EXISTING SPARE	20 A	1	0.00	0.00					1	20 A	EXISTING SPARE
9	EXISTING SPARE	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
11	EXISTING SPARE	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
13	EXISTING SPARE	20 A	1	0.00	0.00					1	20 A	EXISTING SPARE
15	EXISTING SPARE	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
17	EXISTING SPARE	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
19	EXISTING SPARE	20 A	1	0.00	0.00					0	00 4	
21	EXISTING SPARE	20 A	1			0.00	0.00			2	20 A	EXISTING LOAD
23	EXISTING SPARE	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
25	EXISTING SPARE	20 A	1	0.00	0.00					1	20 A	EXISTING SPARE
27	EXISTING SPARE	20 A	1			0.00	0.00			1	20 A	EXISTING SPARE
29	EXISTING SPARE	20 A	1					0.00	0.00	1	20 A	EXISTING SPARE
31				0.00	0.00					1	20 A	EXISTING SPARE
33	LJ3	100 A	3			0.00	0.00			1	20 A	EXISTING SPARE
35	-							0.00	0.00	1	20 A	EXISTING SPARE
37				0.00	0.00							
39	LJ4	100 A	3			0.00	0.00			3	100 A	LJ5
41								0.00	0.00		1	
		Tota	al Load:	0.00	kVA	0.00	kVA	0.00	kVA			
		Tota	Δmps <sup>.</sup>	0	Α	0	Α	0	Α	1		

Set         Circuit Description         Tip         Point         Tip         Point         Tip         Point         Tip         Circuit Description           1         251714G LOAD         20.0         1         0.00         0.00         0.00         0.00         1         20.0         EXISTING SPAPE         20.0         1         20.0         20.0         1 <t< th=""></t<>
CT         Circuit Description         Trip         Poles         A         B         C         Poles         Trip         Circuit Description           3         EXISTING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           3         EXISTING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           2         EXISTING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           2         EXISTING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           2         EXISTING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           2         EXISTING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           2         EXISTING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           2
Crow Lescription         Ipp         Poles         A         B         C         Poles         Inp         Carcut Description           1         EXISTING SPARE         20 Å         1         0.00.         0.00.         1         20 Å         1         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         1         20 Å         EXISTING SPARE         20 Å         1         0.00.         0.00.         1         20 Å         EXISTING SPARE
1       0.00       1       0.00       0.00       0.00       1       20.4       1       0.00       1       20.4       1       0.00       1       20.4       1       0.00       1       20.4       1       0.00       1       20.4       1       0.00       1       20.4       1       0.00       0.00       1       20.4       1       0.00       0.00       1       20.4       1       0.00       0.00       1       20.4       1       0.00       1       20.4       1       0.00       1       20.4       1       20.4       1       0.00       1       20.4       2
EXISTING SPARE         20 A         1         0         0         0         1         20 A         1
VICT         VICTOR
Product Prod Product Product Product Product Product Product Pr
EXISTING SPARE         20 A         1         0
a)       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       20 A       1       20 A       20 A       1       20 A       20 A <td< td=""></td<>
5       EXISTING SPARE       20 A       1       0       0.00       0.00       1       20 A       1       20 A       1       0.00       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE       EXISTING SPARE       EXISTING SPARE       EXISTING SPARE       EXIST
7       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE         20 A       1       0.00       0.00       0.00       1       20 A       EXISTING SPARE         20 A       1       0.00       0.00       0.00       1       20 A       EXISTING SPARE         20 A       1       0.00       0.00       0.00       1       20 A       EXISTING SPARE         20 A       1       0.00       0.00       0.00       1       20 A       EXISTING SPARE         20 A       1       0.00       0.00       0.00       1       20 A       EXISTING SPARE         20 A       1       0.00       0.00       0.00       0.00       1       20 A       EXISTING SPARE         20 A       EXISTING SPARE       20 A       1       0.00       0.00       1       20 A       EXISTING SPARE         3       100 A       3       0.00       0.00       0.00       1       20 A       EXISTING SPARE         1       100 A       3       0.00       0.00       0.00       1       20 A       EXISTING SPARE
Image: Space         ZDA         1         Outor:
Image: Invos SPARE         20 A         1         0.00         0.00         0.00         1         20 A         Existing SPARE           20 A         1         0.00         0.00         0.00         1         20 A         Existing SPARE           20 A         1         0.00         0.00         0.00         1         20 A         Existing SPARE           20 A         1         0.00         0.00         0.00         1         20 A         Existing SPARE           20 A         1         0.00         0.00         0.00         1         20 A         Existing SPARE           20 A         1         0.00         0.00         0.00         1         20 A         Existing SPARE           20 A         100 A         3         0.00         0.00         0.00         1         20 A         Existing SPARE           20 LI4         100 A         3         0.00         0.00         1         20 A         Existing SPARE           21 LI4         100 A         3         0.00         0.00         1         20 A         Existing SPARE           22 LI4         100 A         3         0.00
A Data Into S PARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           20 A STING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           20 A STING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           20 A STING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           20 A STING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           20 A         100 A         3         0.00         0.00         0.00         1         20 A         EXISTING SPARE           20 A         100 A         3         0.00         0.00         1         20 A         EXISTING SPARE           21 U4         100 A         3         0.00         0.00         3         100 A         LJ5           Total Amps:         0 A         0 A         0.00         0.00         0.00         0.00
Control         Control <t< td=""></t<>
EXISTING SPARE         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           1         100 A         3         0.00         0.00         0.00         1         20 A         EXISTING SPARE           1         100 A         3         0.00         0.00         0.00         1         20 A         EXISTING SPARE           1         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           1         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           1         20 A         1         0.00         0.00         0.00         1         20 A         EXISTING SPARE           1         100 A         3         0.00         0.00         0.00         1         20 A         EXISTING SPARE           1         100 A         3         0.00         0.00         0.00         1         20 A         EXISTING SPARE           1         20 A         0 A         0 A         0.00         0.00         0.00         1         1
Image: Section of the section of th
3       LJ3       100 A       3       0.00       0.00       0.00       1       20 A       EXISTING SPARE         7       0.00       0.00       0.00       0.00       1       20 A       EXISTING SPARE         7       0.00       0.00       0.00       0.00       1       20 A       EXISTING SPARE         7       0.00       0.00       0.00       0.00       1       20 A       EXISTING SPARE         7       0.00       0.00       0.00       0.00       1       20 A       EXISTING SPARE         7       0.00       0.00       0.00       0.00       0.00       1       20 A       EXISTING SPARE         Total Load:       0.00       0.00       0.00       0.00         Total Load:       0.00 kVA       0.00 kVA       0.00 kVA         Existing Branch LF1 - SEC. 1         Location: Space 327       Volts: 208Y/120       A.I.C. Rating: 25 kAIC         Mains Rating: 400 A         Mounting: Surface       Wires: 4       Mains Rating: 400 A         Erclosure: Type 1         Trip       Circuit Description
A         A         B         C         Poles         A         B         C         Poles         Trip         Poles         A         B         C         Poles         Trip         Circuit Description           T         Circuit Description         Trip         Poles         A         B         C         Poles         Trip         Circuit Description         1         20 A         EXISTING LOAD
Image: Note of the second control o
a)       LJ4       100 A       3       0.00       0.00       0.00       3       100 A       LJ5         Total Load:       0.00 kVA       0.00 kVA       0.00 kVA       0.00 kVA         Total Amps:       0 A       0 A       0 A       0 A         Sectors Space 327         Supply From: UTILITY         Phases: 3       Wires: 4       Mains Type: MCB         Mounting: Surface       Wires: 4       Mains Rating: 400 A         Brit:
Total Load: 0.00 KVA 0.00 KVA 0.00 KVA Total Amps: 0 A 0 A 0 A end: Existing Branch LF1 - SEC. 1 Location: Space 327 Supply From: UTILITY Mounting: Surface Enclosure: Type 1 T Circuit Description Trip Poles A B C Poles Trip Circuit Description EXISTING LOAD 20 A 1 0.00 0.00 1 20 A EXISTING LOAD
Total Load:       0.00 kVA       0.00 kVA       0.00 kVA         Total Amps:       0 A       0 A       0 A         and:
CT       Circuit Description       Trip       Poles       A       B       C       Poles       Trip       Circuit Description         EXISTING LOAD       20 A       1       0.00       0.00       1       20 A       1       20.00
C     Circuit Description     Trip     Poles     A     B     C     Poles     Trip     Circuit Description       EXISTING LOAD     20 A     1     0.00     0.00     1     20 A     1     0.00
EXISTING LOAD 20 A 1 0.00 0.00 1 20 A FXISTING LOAD
EXISTING LOAD         20 A         1         Image: Construction of the cons
EXISTING LOAD         20 A         1         0.00         0.00         Image: Control of the second sec
EXISTING LOAD         20 A         1         0.00         0.00         1         20 A         EXISTING LOAD
EXISTING LOAD         20 A         1         0.00         0.00         1         20 A         EXISTING LOAD
B         RCPT - DISHWASHER         20 A         1         0.18         0.00         1         20 A         EXISTING LOAD
5         RCPT - DISPOSAL         20 A         1         0.18         0.36         1         20 A         RCPT - KITCHEN
50       RCPT - DISPOSAL       20 A       1       0.18       0.36       1       20 A       RCPT - KITCHEN         7       EXISTING LOAD       20 A       1       0.18       0.00       0.36       1       20 A       RCPT - KITCHEN         0       BCPT - KITCHEN       20 A       1       0.18       0.00       0.36       1       20 A       RCPT - KITCHEN
6       RCPT - DISPOSAL       20 A       1       0       0.18       0.36       1       20 A       RCPT - KITCHEN         7       EXISTING LOAD       20 A       1       0       6       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0       0       0       0       0       0         EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE
5RCPT - DISPOSAL20 A100.180.36120 ARCPT - KITCHEN7EXISTING LOAD20 A10000.000.36120 ARCPT - KITCHEN0RCPT - KITCHEN20 A10.180000.36120 ARCPT - KITCHEN0RCPT - KITCHEN20 A10.18000120 ARCPT - KITCHEN0EXISTING LOAD20 A100.000.00120 AEXISTING SPARE3EXISTING LOAD20 A1000.000.00120 AEXISTING SPARE
ACPT - DISPOSAL20 A100.180.36120 ARCPT - KITCHENVEXISTING LOAD20 A10.1800.000.36120 ARCPT - KITCHENVRCPT - KITCHEN20 A10.18000.000.36120 ARCPT - KITCHENVRCPT - KITCHEN20 A10.1800000000EXISTING LOAD20 A10.180.000.000.00120 AEXISTING SPARERCPT - MICROWAVE20 A10.180.0000120 AEXISTING SPARE
ACPT - DISPOSAL20 A100.180.36120 ARCPT - KITCHENVEXISTING LOAD20 A10000.000.36120 ARCPT - KITCHEN0RCPT - KITCHEN20 A10.1800000.36120 ARCPT - KITCHEN0RCPT - KITCHEN20 A10.180000120 AEXISTING SPARE0EXISTING LOAD20 A10000120 AEXISTING SPARE0EXISTING LOAD20 A10.180.000.000.00120 AEXISTING SPARE0RCPT - MICROWAVE20 A10.180.0000120 AEXISTING SPARE0RCPT - REFRIGERATOR20 A10.180.00120 AEXISTING SPARE
5RCPT - DISPOSAL20 A120 A10.180.36120 ARCPT - KITCHEN7EXISTING LOAD20 A10.18000.000.36120 ARCPT - KITCHEN0RCPT - KITCHEN20 A10.18000.000.36120 ARCPT - KITCHEN1EXISTING LOAD20 A10.180.000.000.00120 AEXISTING SPARE3EXISTING LOAD20 A10.180.000.000.00120 AEXISTING SPARE3EXISTING LOAD20 A10.180.000.00120 AEXISTING SPARE3EXISTING LOAD20 A10.180.000.00120 AEXISTING SPARE4RCPT - MICROWAVE20 A10.180.000.00120 AEXISTING SPARE5RCPT - REFRIGERATOR20 A10.180.00120 AEXISTING SPARE6RCPT - REFRIGERATOR20 A100.180.00120 AEXISTING SPARE6RCPT - REFRIGERATOR20 A100.180.00120 AEXISTING SPARE6RCPT - REFRIGERATOR20 A100.180.00120 AEXISTING SPARE
5       RCPT - DISPOSAL       20 A       1       0       0.18       0.36       1       20 A       RCPT - KITCHEN         7       EXISTING LOAD       20 A       1       0.18       0.18       0.00       0.36       1       20 A       RCPT - KITCHEN         9       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       RCPT - KITCHEN         9       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.00       1       20 A       EXISTING LOAD         9       RCPT - MICROWAVE       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         10       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         10       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       1       20 A       EXISTING SPARE         10       RCPT - REFRIGERATOR       20 A       1       0.18       0.18       0.18       0.18       1       20 A       EXISTING SPARE         10 <t< td=""></t<>
5       RCPT - DISPOSAL       20 A       1       0       0.18       0.36       1       20 A       RCPT - KITCHEN         7       EXISTING LOAD       20 A       1       0       0       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       EXISTING SPARE         0       EXISTING LOAD       20 A       1       0.18       0.00       0.00       0.00       1       20 A       EXISTING SPARE         0       RCPT - MICROWAVE       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         0       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       0.18       0.00       1       20 A       EXISTING SPARE
5       RCPT - DISPOSAL       20 A       1       0       0       0.18       0.36       1       20 A       RCPT - KITCHEN         7       EXISTING LOAD       20 A       1       0.18       0.18       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         1       EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         20 A       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         20 A       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         20 A
5       RCPT - DISPOSAL       20 A       1       0       0       0.18       0.36       1       20 A       RCPT - KITCHEN         7       EXISTING LOAD       20 A       1       0       0       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       RCPT - KITCHEN         0       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING LOAD       EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         3       EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         4       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       0.18       0.00       1       20 A       EXISTING SPARE         6       RCPT - OVEN       <
5       RCPT - DISPOSAL       20 A       1       0       0.18       0.36       1       20 A       RCPT - KITCHEN         7       EXISTING LOAD       20 A       1       0.18       0.36       1       20 A       RCPT - KITCHEN         9       RCPT - KITCHEN       20 A       1       0.18       0.00       0.36       1       20 A       RCPT - KITCHEN         1       EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         3       EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         5       RCPT - MICROWAVE       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         6       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       1       20 A       EXISTING SPARE         7       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       1       20 A       EXISTING SPARE         8       RCPT - OVEN       50 A       3       1       0.00       0.00       1       20 A<
5       RCPT - DISPOSAL       20 A       1       0.18       0.36       1       20 A       RCPT - KITCHEN         7       EXISTING LOAD       20 A       1       0.18       0.36       1       20 A       RCPT - KITCHEN         9       RCPT - KITCHEN       20 A       1       0.18       0.00       0.00       0.36       1       20 A       RCPT - KITCHEN         1       EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         3       EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         3       EXISTING LOAD       20 A       1       0.18       0.00       0.00       1       20 A       EXISTING SPARE         3       RCPT - REFRIGERATOR       20 A       1       0.18       0.00       1       20 A       EXISTING SPARE         3       RCPT - OVEN       50 A       3       0.18       0.00       0.00       1       20 A       EXISTING SPARE         3       RCPT - OVEN       50 A       3       0.18       0.00       0.00

E - F&T LIGHTING FIXTURE SCHEDULE

		_			022					
			B	ASIS OF DESIGN				DRIVER		
TYPE					LUMEN					NOTES
	DESCRIPTION	MANUFACTURER	MODEL	COLOR TEMP	OUTPUT	MOUNTING	WATTS	TYPE	VOLTAGE	
								Wattage		E
LD1	6" LED DOWNLIGHT	LITHONIA	WF6	3000 K	1020	RECESSED		0-10V DIMMABLE		
LD1E	6" LED LIFE SAFETY DOWNLIGHT	LITHONIA	WF6	3000 K	1020	RECESSED		0-10V DIMMABLE		
LD2	8" LED DOWNLIGHT	LITHONIA	WF8	3000 K	1600	RECESSED	20	0-10V DIMMABLE		
LD2E	8" LED LIFE SAFETY DOWNLIGHT	LITHONIA	WF8	3000 K	1600	RECESSED		0-10V DIMMABLE		
LP1	3"X4' LINEAR PENDANT LED	EATON METALUX	SNLED	3000 K	3000	SURFACE		0-10V DIMMABLE	UNV	
LP1E	3"X4' LINEAR PENDANT LIFE SAFETY LED	EATON METALUX	SNLED	3000 K	3000	SURFACE	23	0-10V DIMMABLE		
LP2	16"X16" PENDANT LIGHT	LUMINANCE	F3716-64	3000 K	1200	PENDANT	40	0-10V DIMMABLE		
LP3	CITY GLASS PENDANT	Cooper Industries, Inc.	F3716-64	3000 K	1200	PENDANT	60	0-10V DIMMABLE		
LR1	2'X4' RECESSED LED	EATON METALUX	24FP	3000 K	4700	RECESSED		0-10V DIMMABLE		
LR1E	2'X4' RECESSED LIFE SAFETY LED	EATON METALUX	24FP	3000 K	4700	RECESSED	40	0-10V DIMMABLE		
LR2	2'X2' RECESSED LED	EATON METALUX	22FP	3000 K	3654	RECESSED		0-10V DIMMABLE		
LR2E	2'X2' RECESSED LIFE SAFETY LED, WITH INTEGRAL BATTERY PACK	EATON METALUX	22FP	3000 K	3200	RECESSED	30	0-10V DIMMABLE		
LS1	1'X4' SUSPENDED LED	EATON METALUX	14SP	3000 K	4200	SURFACE	42	0-10V DIMMABLE		
LS1E	1'X4' SUSPENDED LED, WITH INTEGRAL BATTERY PACK	EATON METALUX	14SP	3000 K	4200	SURFACE		0-10V DIMMABLE		
LW1	4"X4' LSW WALL MOUNTED LED	SIGNIFY	LSW LED	3000 K	3500	SURFACE	42	0-10V DIMMABLE		
LW1E	4"X4' LSW WALL MOUNTED LIFE SAFTEY LED	SIGNIFY	LSW LED	3000 K	3500	SURFACE		0-10V DIMMABLE		
LW2	46" VANITY FIXTURE	BORDEN LIGHTING	577-46	3000 K	4600	SURFACE		0-10V DIMMABLE		
LW3	24" VANITY FIXTURE	BORDEN LIGHTING	575-24	3000 K	2300	SURFACE		0-10V DIMMABLE		
LW4E	WALL MOUNTED LED CHANNEL, WITH OCCUPANCY SENSOR	LUMAX LIGHTING	COSLED	3000 K	2900	SURFACE		0-10V DIMMABLE		
LW5	24" VANITY FIXTURE	BORDEN LIGHTING	577-24	3000 K	2300	SURFACE	14	0-10V DIMMABLE	UNV	LF9
LW6E	EXTERIOR WALL MOUNTED LIGHT	COOPER INDUSTRIES	904	3000 K	1020	SURFACE		0-10V DIMMABLE		

Circuit Description	CK
	2
	4
DAD	6
DAD	8
DAD	1(
DAD	12
DAD	14
HEN	16
HEN	18
	20
PARE	22
PARE	24
PARE	26
PARE	28
PARE	30
PARE	32
PARE	34
PARE	36
PARE	38
PARE	4(
PARE	42

3

	KEYNOTES
Keynote Number	Keynote Description
1	REPLACE EXISTING 50A-2P ADJUSTABLE TRIP CIRCUIT BREAKER WITH 50A-2P ADJUSTABLE TRIP SHUNT CIRCUIT BREAKER. CIRCUIT BREAKER TO MATCH PANELBOARD MANUFACTURER IN ALL BESPECTS

5



	LAI Notoci	<b>STING BRANCH LA2</b> Location: CHAPTER M Supply From: Mounting: Surface Enclosure: Type 1	G RM 110	C-106			Volts: Phases: Wires:	208Y/12 3 4	20				A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	
	Notes:													
	<b>СКТ</b> 1	Circuit Description EXISTING LOAD	Trip 20 A	Poles	0.00	<b>A</b>	E	3	(		Poles	Trip 20 A	Circuit Description	СКТ 2
-	3 5	EXISTING LOAD EXISTING LOAD	20 A 20 A	1			0.00	0.00	0.00	0.00	1	20 A 20 A	EXISTING LOAD	4
	7	EXISTING LOAD	20 A	1	0.00	0.00	0.50	0.00			1	20 A	EXISTING LOAD	8
-	11	EXISTING LOAD	20 A	1	0.40		0.50	0.00	0.00	0.00	1	20 A	EXISTING LOAD	12
	13 15	EXISTING LOAD	20 A 20 A	1	0.18	0.00	0.00	0.18			1	20 A 20 A	RCPT - KITCHEN11A-204	14
	17 19	EXISTING LOAD RCPT - KITCHEN11A-204	20 A 20 A	1	0.18	0.00			0.00	0.36	1 1	20 A 20 A	RCPT - KITCHEN11A-204 EXISTING LOAD	18 20
	21 23	EXISTING LOAD EXISTING LOAD	20 A 20 A	1			0.00	0.18	0.00	0.00	1	20 A 20 A	RCPT - KITCHEN11A-204 EXISTING LOAD	22 24
	25 27	RCPT - KITCHEN11A-204 REFRIDGERATOR - KITCHEN11A-204	20 A 20 A	1	0.18	0.00	0.18	0.00			1	20 A 20 A	EXISTING LOAD EXISTING LOAD	26 28
-	29	REFRIDGERATOR - KITCHEN11A-204	20 A	1	0.19	0.00		0100111	0.18	0.00	1	20 A	EXISTING LOAD	30
(1)	31	OVEN	20 A	3	0.18	0.00	0.00	0.00			1	20 A 20 A	EXISTING LOAD EXISTING LOAD	32
_	35 37	EXISTING LOAD	20 A	1	0.00	0.00			0.00	0.00	1	20 A 20 A	EXISTING LOAD EXISTING LOAD	36 38
	39 41	EXISTING LOAD EXISTING LOAD	20 A 20 A	1			0.00	0.00	0.00	0.00	1	20 A 20 A	EXISTING LOAD EXISTING LOAD	40
		1	Tot	al Load:	0.72	2 kVA	1.04	kVA ∆	0.54	kVA 4				
	Legend	1:		<b>F</b> -										
ļ														
	EXI	STING Branch LC1 Location: Space 353					Volts:	208Y/12	20				A.I.C. Rating: ETR	
		Supply From: Mounting: Surface					Phases: Wires:	3 4					Mains Type: MCB Mains Rating: 100 A	
		Enclosure: Type 1											MCB Rating: 225 A	
	Notes:													
-														
	<b>CKT</b>	Circuit Description EXISTING LOAD	20 A	<b>Poles</b> 1	0.00	<b>A</b>	E	3	(	<b>)</b>	Poles	<b>Trip</b> 20 A	Circuit Description EXISTING LOAD	2 CKT
	3 5	EXISTING LOAD	20 A	1			0.00	0.00	0.00	0.00	1	20 A 20 A	EXISTING LOAD	4
	7	EXISTING LOAD	20 A	1	0.00	0.00	0.00	0.00			1	20 A	EXISTING LOAD	8
r	11	EXISTING LOAD EXISTING LOAD	20 A 20 A	1			0.00	0.00	0.00	0.00	1	20 A 20 A	EXISTING LOAD	10
	13 15	EXISTING LOAD	20 A 20 A	1	0.18	0.00	0.00	0.18			1	20 A 20 A	EXISTING LOAD RCPT - KITCHEN 11C-204	14
-	17 19	EXISTING LOAD RCPT - KITCHEN 11C-204	20 A 20 A	1	0.18	0.00			0.00	0.54	1	20 A 20 A	RCPT - KITCHEN 11C-204 EXISTING LOAD	18 20
	21 23	EXISTING LOAD EXISTING LOAD	20 A	1			0.00	0.00	0.00	0.00	1	20 A 20 A	EXISTING LOAD EXISTING LOAD	22
	25	RCPT - KITCHEN 11C-204	20 A	1	0.18	0.00	0.19	0.00			1	20 A	EXISTING LOAD	26
	29	REFRIDGERATOR - KITCHEN 11C-204	20 A	1			0.10	0.00	0.18	0.00	1	20 A	EXISTING LOAD	30
	31	RECEPTACLE Space 11J-152	20 A	3	0.18	0.00	0.00	0.00			1	20 A 20 A	EXISTING LOAD EXISTING LOAD	32
	35 37	EXISTING LOAD	20 A	1	0.00	0.00			0.00	0.00	1	20 A 20 A	EXISTING LOAD EXISTING LOAD	36 38
	39 41	EXISTING LOAD	20 A	1			0.00	0.00	0.00	0.00	1	20 A	EXISTING LOAD	40
ļ	41		Tota	al Load: Al Amps:	0.72	2 kVA 6 A	0.36	kVA A	0.00 0.72 6	kVA A		20 A		42
	Legend	1:				_								
	EX	ISTINGBranch LE1					Volts:	208Y/12	20				A.I.C. Rating: ETR	
	EX	ISTINGBranch LE1 Location: Space 330 Supply From: Mounting: Surface					Volts: Phases: Wires:	208Y/12 3 4	20				A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A	
	EX	<b>ISTINGBranch LE1</b> Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1					Volts: Phases: Wires:	208Y/12 3 4	20				A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	
	EX Notes:	<b>StringBranch LE1</b> Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1					Volts: Phases: Wires:	208Y/12 3 4	20				A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	
	EX Notes:	<b>StringBranch LE1</b> Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1					Volts: Phases: Wires:	208Y/12 3 4	20				A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	
	EX Notes:	<b>STINGBranch LE1</b> Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1	Trip	Poles		<b>A</b>	Volts: Phases: Wires:	208Y/12 3 4	20	2	Poles	Trip	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A Circuit Description	СКТ
	EX Notes:	ISTINGBranch LE1         Location: Space 330         Supply From:         Mounting: Surface         Enclosure: Type 1         Circuit Description         EXISTING LOAD         EXISTING LOAD	<b>Trip</b> 20 A 20 A	<b>Poles</b> 1 1	0.00	<b>A</b> 0.00	Volts: Phases: Wires: E	208Y/12 3 4 <b>3</b> <b>3</b>	20	2	Poles 1 1	<b>Trip</b> 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A Circuit Description EXISTING LOAD	СКТ 2 4
	EX Notes: CKT 1 3 5 7	ISTINGBranch LE1         Location: Space 330         Supply From:         Mounting: Surface         Enclosure: Type 1         Circuit Description         EXISTING LOAD         HOOD- KITCHEN 22E-204	<b>Trip</b> 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1	0.00	A 0.00 0.00	Volts: Phases: Wires:	208Y/12 3 4 <b>3</b>	20 0.00	0.00	<b>Poles</b> 1 1 1 1 1	<b>Trip</b> 20 A 20 A 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A Circuit Description EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	CKT 2 4 6 8
	<b>EX Notes: CKT</b> 1 3 5 7 9 11	<b>EXISTING LOAD</b> EXISTING LOAD         HOOD- KITCHEN 22E-204         EXISTING LOAD         RCPT - KITCHEN 22E-204	<b>Trip</b> 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00	A 0.00 0.00	Volts: Phases: Wires: 0.00 0.00	208Y/12 3 4 0.00 0.00	20 ( 0.00 0.18	0.00	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>Trip</b> 20 A 20 A 20 A 20 A 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	CKT 2 4 6 8 10 12
	<b>EX</b> Notes: CKT 1 3 5 7 9 11 13 15	ISTINGBranch LE1         Location: Space 330         Supply From:         Mounting: Surface         Enclosure: Type 1         Circuit Description         EXISTING LOAD         RCPT - KITCHEN 22E-204         EXISTING LOAD         RCPT - DISHWASHER         EXISTING LOAD	<b>Trip</b> 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00	A 0.00 0.00 0.00	Volts: Phases: Wires: 0.00 0.00	208Y/12 3 4 0.00 0.00	20	0.00	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>Trip</b> 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A Circuit Description EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	CKT 2 4 6 8 10 12 14
	<b>EX</b> Notes: CKT 1 3 5 7 9 11 13 15 17	ISTINGBranchLE1         Location: Space 330         Supply From:         Mounting: Surface         Enclosure: Type 1         Circuit Description         EXISTING LOAD         EXISTING LOAD         EXISTING LOAD         EXISTING LOAD         RCPT - KITCHEN 22E-204         RCPT - DISHWASHER         EXISTING LOAD         EXISTING LOAD	<b>Trip</b> 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00	A 0.00 0.00 0.00	Volts: Phases: Wires: 0.00 0.00 0.00	208Y/12 3 4 0.00 0.00 0.18	20 20 0.00 0.18 0.00	0.00 0.36	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>Trip</b> 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	CKT 2 4 6 8 10 12 14 16 18
	<b>EX</b> Notes: CKT 1 3 5 7 9 11 13 15 17 19 21	<b>EXISTING EDESCRIPTION</b> Location: Space 330         Supply From:         Mounting: Surface         Enclosure: Type 1         Circuit Description         EXISTING LOAD         RCPT - KITCHEN 22E-204         RCPT - DISHWASHER         EXISTING LOAD         EXISTING LOAD         RCPT - DISHWASHER         EXISTING LOAD         RCPT - KITCHEN 22E-204         EXISTING LOAD         RCPT - KITCHEN 22E-204         EXISTING LOAD         RCPT - KITCHEN 22E-204	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.50 0.18 0.18	A 0.00 0.00 0.00 0.00	Volts: Phases: Wires: 0.00 0.00 0.00	208Y/12 3 4 0.00 0.18 0.00	20 0.00 0.18 0.00	0.00 0.00 0.36	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>Trip</b> 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	CKT 2 4 6 8 10 12 14 16 18 20 22
	EX Notes: CKT 1 3 5 7 9 11 13 15 17 19 21 23 25	ISTINGBRANCHLEI Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1 Circuit Description EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD HOOD- KITCHEN 22E-204 EXISTING LOAD RCPT - KITCHEN 22E-204 RCPT - DISHWASHER EXISTING LOAD RCPT - KITCHEN 22E-204 EXISTING LOAD RCPT - KITCHEN 22E-204 EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.50 0.18 0.18 0.18	A 0.00 0.00 0.00 0.00 0.00	Volts: Phases: Wires: 0.00 0.00 0.00	208Y/12 3 4 0.00 0.00 0.18 0.00	20 20 0.00 0.18 0.00 0.00	0.00 0.36 0.00	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>Trip</b> 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24 24 26
	<b>EX</b> Notes: CKT 1 3 5 7 9 11 3 5 7 9 11 13 15 17 19 21 23 25 27 29	ISTINGBRANCH LEI Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1 Circuit Description EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD HOOD- KITCHEN 22E-204 EXISTING LOAD RCPT - KITCHEN 22E-204 RCPT - DISHWASHER EXISTING LOAD RCPT - KITCHEN 22E-204 EXISTING LOAD	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.50 0.18 0.18 0.36	A 0.00 0.00 0.00 0.00 0.00 0.00	Volts: Phases: Wires: 0.00 0.00 0.00 0.00 0.00	208Y/12 3 4 0.00 0.00 0.18 0.00 0.00	20 20 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30
	<b>EX</b> Notes:          CKT         1         3         5         7         9         11         3         5         7         9         11         33         5         7         9         11         13         15         17         19         21         23         25         27         29         31         32	ISTINGBranch LE1 Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1 Circuit Description EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD HOOD- KITCHEN 22E-204 EXISTING LOAD RCPT - KITCHEN 22E-204 RCPT - DISHWASHER EXISTING LOAD RCPT - KITCHEN 22E-204 EXISTING LOAD RCPT - KITCHEN 22E-204	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.50 0.18 0.18 0.36 0.18	A 0.00 0.00 0.00 0.00 0.00 0.00	Volts: Phases: Wires: 0.00 0.00 0.00 0.00 0.00 0.00 0.00	208Y/12 3 4 0.00 0.00 0.00 0.00 0.00	20 20 0.00 0.18 0.00 0.00 0.18	C 0.00 0.00 0.36 0.00	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 32
	<b>EX</b> Notes: CKT 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	STINGBRANCH. LES Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1 Circuit Description EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD HOOD- KITCHEN 22E-204 EXISTING LOAD RCPT - KITCHEN 22E-204 RCPT - DISHWASHER EXISTING LOAD RCPT - KITCHEN 22E-204 EXISTING LOAD EXISTING LOAD COVEN- KITCHEN 22E-204 REFRIDGERATOR - KITCHEN 22E-204 REFRIDGERATOR - KITCHEN 22E-204	Trip           20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.18 0.18 0.18 0.18 0.18	A 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Volts: Phases: Wires: 0.00 0.00 0.00 0.00 0.18 0.00	208Y/12 3 4 0.00 0.00 0.00 0.00 0.00	20 20 0.00 0.00 0.00 0.00 0.18 0.00	C 0.00 0.00 0.00 0.00 0.00	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36
	<b>EX</b> Notes:          CKT         1         3         7         9         11         3         7         9         11         3         5         7         9         11         3         5         7         9         11         3         5         7         9         11         3         5         7         9         11         3         5         7         9         11         325         37         39	ISTINGBRANCHLEI Location: Space 330 Supply From: Mounting: Surface Enclosure: Type 1 Circuit Description EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD HOOD- KITCHEN 22E-204 EXISTING LOAD RCPT - KITCHEN 22E-204 RCPT - DISHWASHER EXISTING LOAD EXISTING LOAD RCPT - KITCHEN 22E-204 EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD COVEN- KITCHEN 22E-204 REFRIDGERATOR - KITCHEN 22E-204 REFRIDGERATOR - KITCHEN 22E-204 EXISTING LOAD	Trip           20 A           20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.18 0.18 0.18 0.18 0.18 0.18	A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Volts: Phases: Wires: 0.00 0.00 0.00 0.18 0.00 0.00	208Y/12 3 4 0.00 0.00 0.00 0.00 0.00 0.00	20 20 0.00 0.00 0.00 0.00 0.18 0.00 0.18	0.00 0.00 0.00 0.00 0.00 0.00	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	AI.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 225 A	CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40

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BIM 360://C08792.001 - Emory Sorority Housing Renovations/190042\_Emory Sorority Lodge Ren A-E\_MEP\_2021.rvt 12/16/2021 8:35:58 AM

30x42 - 12/16/20 copyright 2021

		Location: CH Supply From: Mounting: Sur Enclosure: Typ	APTER MTG RM 110 face be 1	C-106			Volts: Phases: Wires:	208Y/12 3 4	20				A.I.C. Rating: ETR Mains Type: MCB Mains Rating: 100 A MCB Rating: 100 A	
	Not	es:							1				Τ	
скт	CI	Circuit Description	Trip	Poles		Δ		в		C	Poles	Trip	Circuit Description	
2	-	1 EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD	
4	3	3 EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	
6	Ę	5 EXISTING LOAD	20 A	1			_		0.00	0.00	1	20 A	EXISTING LOAD	
8	-	7 EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD	
10	ę	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	
12	1	1 EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD	
14	1	3 RCPT - DISHWASHER	20 A	1	0.18	0.00					1	20 A	EXISTING LOAD	
16	1	5 EXISTING LOAD	20 A	1			0.00	0.18			1	20 A	RCPT - KITCHEN 11B-204	
18	1	7 HOOD	20 A	1					0.50	0.36	1	20 A	RCPT - KITCHEN 11B-204	
20	1	9 RCPT - KITCHEN 11B-204	20 A	1	0.18	0.00					1	20 A	EXISTING LOAD	
22	2	1 EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	
24	2	3 EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD	
26	2	5 RCPT - KITCHEN 11B-204	20 A	1	0.36	0.00					1	20 A	EXISTING LOAD	
28	2	7 REFRIDGERATOR - KITCHEN 11B-2	04 20 A	1			0.18	0.00			1	20 A	EXISTING LOAD	
30	2	9 REFRIDGERATOR - KITCHEN 11B-2	04 20 A	1					0.18	0.00	1	20 A	EXISTING LOAD	
32 (	$\overline{1}$	1			0.18	0.00					1	20 A	EXISTING LOAD	
34 \		3 OVEN	20 A	3			0.00	0.00			1	20 A	EXISTING LOAD	
36	3		00.4		0.00	0.00			0.00	0.00	1	20 A		
38	3		20 A	1	0.00	0.00	0.00	0.00			1	20 A		
40	3		20 A	1			0.00	0.00	0.00	0.00	1	20 A		
42	4			tal Load	• 0.90	) k\/A	0.36	kVΔ	1.04	0.00	I	20 A		
			Tot	al Amps	: 8	A	0.00	Α	9	Α	]			
1		lond				-		-		-				

	СКТ	Circuit Description	Trip	Poles		A		В		С	Poles	Trip	Circuit Description	СКТ
	1	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD	2
	3	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	4
	5	EXISTING LOAD	20 A	1					0.00	0.50	1	20 A	HOOD	6
	7	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD	8
	9	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	10
	11	EXISTING LOAD	20 A	1					0.00	0.18	1	20 A	RCPT -KITCHEN 11D-204	12
	13	RCPT - DISHWASHER	20 A	1	0.18	0.00					1	20 A	EXISTING LOAD	14
	15	EXISTING LOAD	20 A	1			0.00	0.18			1	20 A	RCPT -KITCHEN 11D-204	16
	17	EXISTING LOAD	20 A	1					0.00	0.36	1	20 A	RCPT -KITCHEN 11D-204	18
	19	RCPT -KITCHEN 11D-204	20 A	1	0.18	0.00					1	20 A	EXISTING LOAD	20
	21	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	22
	23	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD	24
	25	RCPT -KITCHEN 11D-204	20 A	1	0.18	0.00					1	20 A	EXISTING LOAD	26
	27	REFRIGERATOR - KITCHEN 11D-204	20 A	1			0.18	0.00			1	20 A	EXISTING LOAD	28
	29	REFRIGERATOR - KITCHEN 11D-204	20 A	1					0.18	0.00	1	20 A	EXISTING LOAD	30
[	31				0.18	0.00					1	20 A	EXISTING LOAD	32
)[	33	OVEN	20 A	3			0.00	0.00			1	20 A	EXISTING LOAD	34
1	35	_							0.00	0.00	1	20 A	EXISTING LOAD	36
	37	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD	38
	39	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	40
	41	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD	42
			Tot	al Load:	0.72	kVA	0.36	6 kVA	1.22	kVA				I
	Total Amps: 6		A	3	A	1 <sup>.</sup>	1 A							

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Notes

Legend:

E - F&T LIGHTING FIXTURE SCHEDULE										
	BASIS OF DESIGN DRIVER									
TYPE	DESCRIPTION	MANUFACTURER	MODEL	COLOR TEMP	LUMEN OUTPUT	MOUNTING	WATTS	TYPE	VOLTAGE	NOTES
								Wattage		E
LD1	6" LED DOWNLIGHT	LITHONIA	WF6	3000 K	1020	RECESSED		0-10V DIMMABLE		
LD1E	6" LED LIFE SAFETY DOWNLIGHT	LITHONIA	WF6	3000 K	1020	RECESSED		0-10V DIMMABLE		
LD2	8" LED DOWNLIGHT	LITHONIA	WF8	3000 K	1600	RECESSED	20	0-10V DIMMABLE		
LD2E	8" LED LIFE SAFETY DOWNLIGHT	LITHONIA	WF8	3000 K	1600	RECESSED		0-10V DIMMABLE		
LP1	3"X4' LINEAR PENDANT LED	EATON METALUX	SNLED	3000 K	3000	SURFACE		0-10V DIMMABLE	UNV	
LP1E	3"X4' LINEAR PENDANT LIFE SAFETY LED	EATON METALUX	SNLED	3000 K	3000	SURFACE	23	0-10V DIMMABLE		
LP2	16"X16" PENDANT LIGHT	LUMINANCE	F3716-64	3000 K	1200	PENDANT	40	0-10V DIMMABLE		
LP3	CITY GLASS PENDANT	POTTERY BARN IC.	F3716-64	3000 K	1200	PENDANT	60	0-10V DIMMABLE		
LR1	2'X4' RECESSED LED	EATON METALUX	24FP	3000 K	4700	RECESSED		0-10V DIMMABLE		
LR1E	2'X4' RECESSED LIFE SAFETY LED	EATON METALUX	24FP	3000 K	4700	RECESSED	40	0-10V DIMMABLE		
LR2	2'X2' RECESSED LED	EATON METALUX	22FP	3000 K	3654	RECESSED		0-10V DIMMABLE		
LR2E	2'X2' RECESSED LIFE SAFETY LED, WITH INTEGRAL BATTERY PACK	EATON METALUX	22FP	3000 K	3200	RECESSED	30	0-10V DIMMABLE		
LS1	1'X4' SUSPENDED LED	EATON METALUX	14SP	3000 K	4200	SURFACE	42	0-10V DIMMABLE		
LS1E	1'X4' SUSPENDED LED, WITH INTEGRAL BATTERY PACK	EATON METALUX	14SP	3000 K	4200	SURFACE		0-10V DIMMABLE		
LW1	4"X4' LSW WALL MOUNTED LED	SIGNIFY	LSW LED	3000 K	3500	SURFACE	42	0-10V DIMMABLE		
LW1E	4"X4' LSW WALL MOUNTED LIFE SAFTEY LED	SIGNIFY	LSW LED	3000 K	3500	SURFACE		0-10V DIMMABLE		
LW2	46" VANITY FIXTURE	BORDEN LIGHTING	577-46	3000 K	4600	SURFACE		0-10V DIMMABLE		
LW3	24" VANITY FIXTURE	BORDEN LIGHTING	575-24	3000 K	2300	SURFACE		0-10V DIMMABLE		
LW4E	WALL MOUNTED LED CHANNEL, WITH OCCUPANCY SENSOR	LUMAX LIGHTING	COSLED	3000 K	2900	SURFACE		0-10V DIMMABLE		
LW5	24" VANITY FIXTURE	BORDEN LIGHTING	577-24	3000 K	2300	SURFACE	14	0-10V DIMMABLE	UNV	LF9
LW6E	EXTERIOR WALL MOUNTED LIGHT	COOPER INDUSTRIES	904	3000 K	1020	SURFACE		0-10V DIMMABLE		

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## **COPPER FEEDER SCHEDULE**

FEEDER SYMBOL	CONDUCTORS (3-PHASE, 3-WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	CONDUCTORS (3-PHASE, 4-WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	NOMINAL AMPERE RATING	
1	3#4 & 1#8G.	1 1/4"			70	
2			4#4 & 1#8G.	1 1/4"	70	
3	3#3 & 1#8G.	1 1/4"			00	
4			4#3 & 1#8G.	1 1/4"	80	
5	3#2 & 1#8G.	1 1/4"			00	
6			4#2 & 1#8G.	1 1/2"	90	
7	3#1 & 1#8G.	1 1/2"			100	
8			4#1 & 1#8G.	1 1/2"	100	
9	3#1 & 1#6G.	1 1/2"			105	
10			4#1 & 1#6G.	1-1/2"	125	
11	3#1/0 & 1#6G.	2"			150	
12			4#1/0 & 1#6G.	2"	150	
13	3#2/0 & 1#6G.	2"				
14			4#2/0 & 1#6G.	2"	175	
15	3#3/0 & 1#6G.	2"				
16			4#3/0 & 1#6G.	2"	200	
17	3#4/0 & 1#4G.	2 1/2"				
18			4#4/0 & 1#4G.	2 1/2"	225	
19	3#250 KCMIL & 1#4G.	2 1/2"				
20			4#250 KCMIL & 1#4G.	2-1/2"	250	
21	3#350 KCMIL & 1#4G.	3"				
22			4#350 KCMIL & 1#4G.	3"	300	
23	3#500 KCMIL & 1#3G.	4"				
24			4#500 KCMIL & 1#3G.	4"	350	
25	3#600 KCMIL & 1#3G.	4"				
26			4#600 KCMIL & 1#3G.	4"	400	
27	6#250 KCMIL & 2#2G.	(2)2-1/2"				
28			8#250 KCMIL & 2#2G.	(2)2-1/2"	500	
29	6#350 KCMIL & 2#1G.	(2)3"				
30			8#350 KCMIL & 2#1G.	(2)3"	600	
31	9#300 KCMIL & 3#1/0G.	(3)3"				
32			12#300 KCMIL & 3#1/0G.	(3)3"	800	
33	9#400 KCMIL & 3#2/0G.	(3)3"				
34			12#400 KCMIL & 3#2/0G.	(3)3"	1000	
35	9#600 KCMIL & 3#3/0G.	(3)4"				
36			12#600 KCMIL & 3#3/0G.	(3)4"	1200	
37	12#600 KCMIL & 4#4/0G.	(4)4"			1000	
38			16#600 KCMIL & 4#4/0G.	(4)4"	1000	

FEEDER SIZE NOTES:

ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS NEC TABLE 310.15.(B).(16)(2017); 60-DEGREE C UP TO 100A; 75 DEGREE C OVER 100A.

2. CONDUIT SIZES ARE FOR COPPER CONDUCTORS WITH THWN-2 INSULATION IN EMT PER NEC TABLE C1 IN ANNEX C. 3. 600KCMIL FEEDERS SHALL BE PROVIDED WITH MAC ADAPTERS AS REQUIRED TO COORDINATE WITH BREAKER LUG SIZES.

4. SEE SPECIFICATIONS FOR ACCEPTABLE CONDUCTOR TYPES.

5. CONTRACTOR SHALL PROVIDE PRICING INFORMATION FOR USE OF ALUMINUM FEEDERS AS ADD ALTERNATE #

KEYNOTES						
Keynote Number	Keynote Description		CIR			
1	REPLACE EXISTING 50A-2P ADJUSTABLE TRIP CIRCUIT BREAKER WITH 50A-2P ADJUSTABLE TRIP SHUNT CIRCUIT BREAKER. CIRCUIT		12			
	BREAKER TO MATCH PANELBOARD MANUFACTURER IN ALL RESPECTS.		20			

BRANCH CIRCUIT SCHEDULE					
CIRCUIT BREAKER	CONDUCTORS				
120 VOLT & 277 VOLT	1PH, 2W. CIRCUITS				
20A-1P	2#12 & 1#12G - 3/4"C.				
30A-1P	2#10 & 1#10G - 3/4"C.				
40A-1P	2#8 & 1#10G - 3/4"C. 2#6 & 1#10G - 3/4"C.				
50A-1P					
60A-1P	2#4 & 1#10G - 3/4"C.				
208 VOLT & 480 VOLT	1PH, 2W. CIRCUITS				
20A-2P/2W	2#12 & 1#12G - 3/4"C.				
30A-2P/2W	2#10 & 1#10G - 3/4"C.				
40A-2P/2W	2#8 & 1#10G - 3/4"C.				
50A-2P/2W	2#6 & 1#10G - 3/4"C.				
60A-2P/2W 2#4 & 1#10G - 3/4					
208 VOLT & 480 VOLT 3PH, 3W. CIRCUITS					
20A-3P/3W	3#12 & 1#12G - 3/4"C.				
30A-3P/3W	3#10 & 1#10G - 3/4"C.				
40A-3P/3W	3#8 & 1#10G - 3/4"C.				
50A-3P/3W	3#6 & 1#10G - 3/4"C.				
60A-3P/3W 3#4 & 1#10G - 1"C.					
<ul> <li>BRANCH CIRCUIT SIZE NOTES:</li> <li>1. ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS NEC TABLE 310.15.(B).(16) (2017); 60-DEGREE C UP TO 100A; 75 DEGREE C OVER 100A.</li> <li>2. CONDUIT SIZES ARE FOR COPPER</li> </ul>					

CONDUCTORS WITH THWN-2 INSULATION IN EMT PER NEC TABLE C1 IN ANNEX C.

3. CONDUIT AND CABLE SIZES SHALL BE PER TABLE ABOVE, UNLESS NOTED OTHERWISE ON THE FLOOR PLANS AND DRAWINGS.

SEE SPECIFICATIONS FOR ACCEPTABLE CONDUCTOR TYPES.

## LIGHTING FIXTURE SCHEDULE NOTES:

THE BASIS OF DESIGN FOR LIGHTING FIXTURES SHALL BE AS INDICATED ON THESE	
DOCUMENTS. ANY SUBSTITUTIONS AND/OR ALTERNATE MANUFACTURERS SHALL	
BE IDENTIFIED IN THE CONTRACTORS BID FOR THE PROJECT AND SHALL BE	
ACCOMPANIED WITH A FULL SUBMITTAL OF ALL PROPOSED SUBSTITUTIONS. THE	
ARCHITECT, OWNER, AND ENGINEER MUST PROVIDE APPROVAL FOR THE	
SUBSTITUTIONS FOR EQUIVALENT PERFORMANCE AND AESTHETIC APPEARANCE	
PRIOR TO THE SUBSTITUTIONS BEING ACCEPTED. EQUIVALENT FIXTURE	
PERFORMANCE SHALL BE DEMONSTRATED BY LIGHTING PERFORMANCE	
CALCULATIONS IF REQUESTED AND SHALL INCLUDE MEETING UTILITY COMPANY	
INCENTIVE PROGRAMS.	

- (NOTES LF1 THROUGH LF8 ARE GENERAL NOTES AND APPLY TO ALL LIGHT FIXTURES). LF1. FINAL MOUNTING HEIGHT, AND LOCATION SHALL BE AS DIRECTED BY ARCHITECT. LF2. CATALOG NUMBERS INDICATED ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR FINAL FIXTURE COORDINATION AND INSTALLATION,
- REFER TO SPECIFICATIONS. LF3. RECESSED FIXTURES LOCATED WITHIN INSULATED CEILING OR WALL SHALL BE "IC" RATED.
- LF4. FINAL FINISH/COLOR OF FIXTURE TO BE APPROVED IN WRITING BY ARCHITECT. LF5. COORDINATE LIGHTING FIXTURE INSTALLATION AND TRIM KIT WITH CEILING TYPE INDICATED ON ARCHITECTURAL DRAWINGS.
- LF6. COORDINATE TASK LIGHT FIXTURE INSTALLATION WITH CASEWORK AS DETAILED ON ARCHITECTURAL DRAWINGS.
- LF7. COORDINATE EXACT FIXTURE MOUNTING REQUIREMENTS, LAMPING AND ADDITIONAL LF8. INFORMATION WITH ARCHITECT AND LIGHTING DESIGNER PRIOR TO INSTALLATION AND ORDERING.
- (NOTES LF9 THROUGH LF10 ARE SPECIFIC NOTES-REFER TO NOTES COLUMN FOR WHICH FIXTURE THE NOTE APPLIES).
- LF9. LIGHTING FIXTURES DESIGNATED AS LIFE-SAFETY LIGHTING FIXTURES SHALL BE PROVIDED WITH 14 WATT INTEGRAL OR REMOTE BATTERY PACKS. LF10. U.L. DAMP LOCATION LISTED.

